

Service Manual

PIONEER
The Art of Entertainment

● KE-2700SDK



ORDER NO.
CRT1325

CASSETTE CAR STEREO WITH FM/MW ELECTRONIC TUNER

KE-2700SDK

WG

KE-2700B

IT

KE-1700SDK

WG

KE-1700B

IT

CASSETTE CAR STEREO WITH FM/MW/LW ELECTRONIC TUNER

KE-2730B

EW

KE-1730B

EW

Note:

- See the separate manual CX-197(CRT1328) for the cassette mechanism description.

CONTENTS

1. SPECIFICATIONS	2	14. SCHEMATIC CIRCUIT DIAGRAM	
2. USING THE RADIO	3	(KE-1700SDK)	40
3. USING THE TAPE DECK	4	15. CONNECTION DIAGRAM (KE-1700SDK)	43
4. CONNECTIONS	5	16. CONNECTION DIAGRAM (KE-1730B)	47
5. DISASSEMBLY	7	17. SCHEMATIC CIRCUIT DIAGRAM	
6. BLOCK DIAGRAM	9	(KE-1730B)	51
7. ADJUSTMENT	11	18. SCHEMATIC CIRCUIT DIAGRAM	
8. CONNECTION DIAGRAM (KE-2700SDK)	19	(KE-1700B)	54
9. SCHEMATIC CIRCUIT DIAGRAM		19. CONNECTION DIAGRAM (KE-1700B)	57
(KE-2700SDK)	23	20. EXPLODED VIEW	61
10. SCHEMATIC CIRCUIT DIAGRAM		21. PACKING METHOD	65
(KE-2730B)	26	22. CASSETTE MECHANISM EXPLODED VIEW	66
11. CONNECTION DIAGRAM (KE-2730B)	29	23. ELECTRICAL PARTS LIST	69
12. CONNECTION DIAGRAM (KE-2700B)	33		
13. SCHEMATIC CIRCUIT DIAGRAM			
(KE-2700B)	37		

PIONEER ELECTRONIC CORPORATION 4-1, Meguro 1-Chome, Meguro-ku, Tokyo 153, Japan

PIONEER ELECTRONICS SERVICE INC. P.O. Box 1760, Long Beach, California 90801 U.S.A.

PIONEER ELECTRONICS OF CANADA, INC. 505 Cochrane Drive, Markham, Ontario L3R 8E3 Canada

PIONEER ELECTRONIC [EUROPE] N.V. Keetberglaan 1, 2740 Beveren, Belgium

PIONEER ELECTRONICS AUSTRALIA PTY. LTD. 178-184 Boundary Road, Braeside, Victoria 3195, Australia TEL: [03] 580-9911

© **PIONEER ELECTRONIC CORPORATION 1990**

FK DEC. 1990 Printed in Japan

SAFETY INFORMATION

WARNING!

Lithium batteries. Danger of explosion. Replacement must be done by qualified personnel and only by following the instructions given in the service manual.

This warning is stated on the product or in the operating instructions. When replacing the lithium batteries, follow the note below.

Dispose of the used battery promptly. Keep away from children. Do not disassemble and do not dispose of in fire.

The battery used in this device may present a fire or chemical hazard if mistreated. Do not recharge, disassemble, heat above 100°C or incinerate. Replace only with the same Part Number. Use of another battery may present a risk of fire or explosion.

Note: The lithium battery installation position is shown in the exploded view and the P.C. board pattern.

ADVARSEL!

Lithiumbatteri — Eksplosionsfare ved fejlagtig håndtering. Udskiftning må kun ske med batteri af samme fabrikat og type. Levér det brugte batteri tilbage til leverandøren.

Denne advarsel er angivet på produktet eller i brugsvejledningen. Ved udskiftning af lithium batterierne følges nedenstående anvisning. Batterierne må kun udskiftes med batterier af samme type og mærke.

VARNING

Explosionsfara vid felaktigt batteri-byte. Använd samma batterityp eller en ekvivalent typ som rekommenderas av apparattillverkaren. Kassera använt batteri enligt fabrikantens instruktion.

Denna varning finns på apparaten eller i bruksanvisningen. Följ nedanstående anvisningar vid byte av litiumbatterier. Batterierna får endast bytas ut mot litiumbatterier av samma typ och fabrikat.

1. SPECIFICATIONS

General

Power source	14.4 V DC (10.8 — 15.6 V allowable)
Grounding system	Negative type
Max. current consumption	
(KE-2700SDK, KE-2730B, KE-2700B)	2.5 A
(KE-1700SDK, KE-1730B, KE-1700B)	1.8 A
Dimensions (chassis)	180(W) × 50(H) × 141(D) mm
(front face)	188(W) × 58(H) × 16(D) mm
Weight	1.3 kg

Amplifier

Maximum power output	
(KE-2700SDK, KE-2730B, KE-2700B)	8.5 W × 2/7 W × 4 (EIAJ)
(KE-1700SDK, KE-1730B, KE-1700B)	8.5 W × 2 (EIAJ)
Continuous power output	
(KE-2700SDK, KE-2730B, KE-2700B)	4.5 W × 2/3.5 W × 4
(1% dist. at 1 kHz)	
(KE-1700SDK, KE-1730B, KE-1700B)	4.5 W × 2
(1% dist. at 1 kHz)	
Load impedance	
(KE-2700SDK, KE-2730B, KE-2700B)	4 Ω (4 — 8 Ω allowable)
(KE-1700SDK, KE-1730B, KE-1700B)	4 Ω (2 — 8 Ω allowable)
Tone controls (KE-2700SDK, KE-2730B, KE-2700B)	
(bass)	±10 dB (100 Hz)
(treble)	±10 dB (10 kHz)
Loudness contour	+8 dB (100 Hz), +4 dB (10 kHz)
(volume: -30 dB)	

Tape player

Tape	Compact cassette tape (C-30 — C-90)
Tape speed	4.76 cm/sec. (+0.14 cm/sec., -0.05 cm/sec.)
Fast forward/rewind time	Approx. 100 sec. for C-60
Wow & flutter	0.13% (WRMS)
Frequency response	50 — 14,000 Hz (±3 dB)
Stereo separation	45 dB
Signal-to-noise ratio	52 dB (IEC-A network)

FM tuner

Frequency range	87.5 — 108 MHz
Usable sensitivity	11 dBf (1.0 μV/75 Ω, mono, S/N: 30 dB)
50 dB quieting sensitivity	16 dBf (1.7 μV/75 Ω, mono)
Signal-to-noise ratio	70 dB (IEC-A network)
Distortion	0.3% (at 65 dBf, 1 kHz, stereo)
Frequency response	30 — 15,000 Hz (±3 dB)
Stereo separation	40 dB (at 65 dBf, 1 kHz)

MW tuner

Frequency range	531 — 1,602 kHz
Usable sensitivity	18 μV (25 dB) (S/N: 20 dB)
Selectivity	50 dB (±9 kHz)

LW tuner (KE-2730B, KE-1730B)

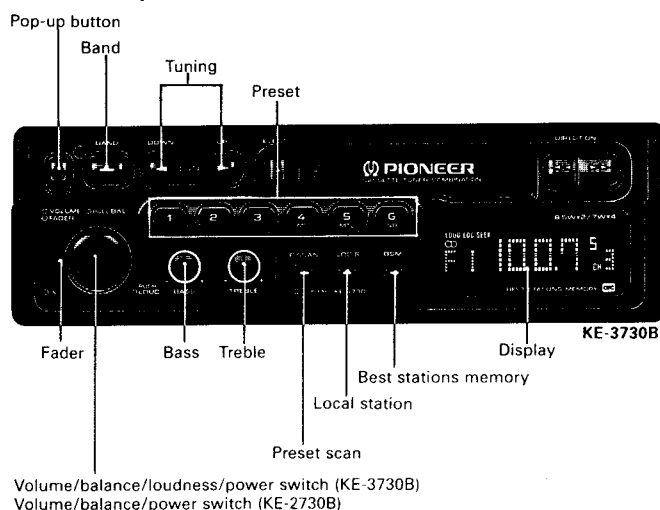
Frequency range	153 — 281 kHz
Usable sensitivity	30 μV (30 dB) (S/N: 20 dB)
Selectivity	50 dB (±9 kHz)

Note:

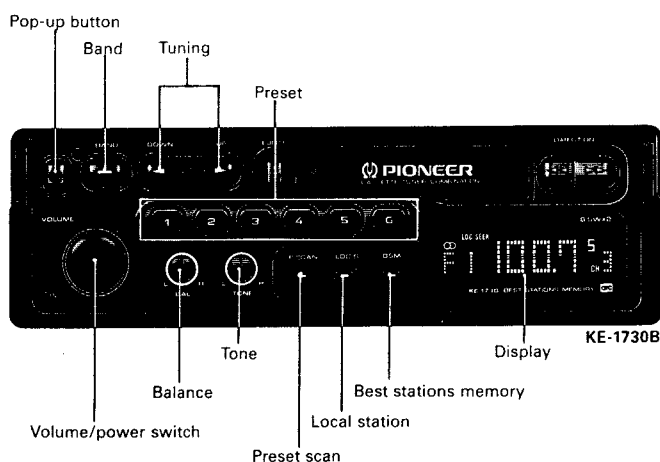
Specifications and the design are subject to possible modification without notice due to improvements.

2. USING THE RADIO

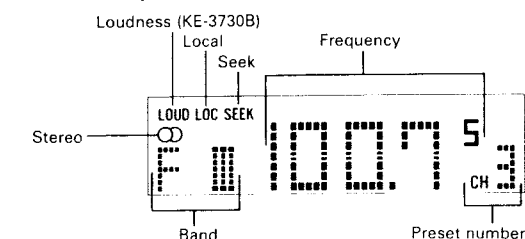
KE-3730B, KE-2730B



KE-1730B



KE-3730B, KE-2730B, KE-1730B



• Before attempting operation...

- Set the fader control to the left horizontal. (KE-2730B)
- 1. Turning the power switch to the right causes power to switch ON and the current frequency to appear on the display.
- Since the set is designed preferentially for tape play, eject a cassette tape, if mounted, before operating the radio.
- 2. Press the band switch to select the band.
- Switching between FM and MW/LW is controlled by the band switch. Switching between LW and MW is accomplished using the tuning button. The MW band is from 531 kHz to 1,602 kHz, and the LW band is from 153 kHz to 281 kHz.
- 3. Press both ends of tuning button and the seek tuning indicator will appear on the display.
- 4. Press either the left or right side of the tuning button to tune in the desired frequency. (Pressing the right side will increase the frequency.)

KE-2730B

- 5. Adjust the volume and balance. To adjust the balance, first pull the knob until a click is heard. After setting to the desired level, push the knob in again to its original position.

KE-1730B

- 5. Adjust the volume and balance.
- 6. Adjust the tone.

• To enter a frequency into the preset memory...

- 7. Hold down one of the preset buttons (1-6) for approximately two seconds. The frequency is stored in memory (assigned to the preset button pressed) once the preset number stops flashing on the display.
- Six FM1 frequencies, six FM2 frequencies, six FM3 frequencies and six MW and LW frequencies can be entered.

• Best Stations Memory Button

Automatically tunes strong frequencies and assigns them to preset buttons 1 through 6 for one-touch automatic tuning. The best stations memory function is activated by pressing this button for approximately 2 seconds. The best stations memory function is indicated by — flashing on the display, and this function can be canceled by pressing the band switch. The frequency display returns once the best stations memory function is complete. The frequency displayed at this time is of the strongest station assigned to preset button 1 by the best stations memory function.

- 6 best (strongest) frequencies are memorized in the 6 preset buttons in the order of their strength, the strongest one being assigned to preset button 1.
- The frequencies previously assigned to the preset buttons are retained when 6 frequencies cannot be located.
- The best stations memory is in operation while — is flashing on the display.

• Local Station Switch

Pressing this switch increases the seek threshold level so that only relatively strong stations can be tuned in (local indicator will illuminate on the display). Local seek threshold level can be selected among four levels for FM and two levels for MW and LW. Holding this switch down for approximately 2 seconds and then pressing the right side of the tuning button changes the display from L-1, L-2, L-3 to L-4. Pressing the left side of the tuning button changes the display from L-4, L-3, L-2 to L-1 (L-1 and L-2 for MW/LW). The bigger the number, the higher the seek threshold becomes and only relatively strong stations can be tuned in.

● **Fader Control (KE-2730B)**

This control is used to adjust the balance between the front and rear speakers when using a 4-speaker system. Turning the control upwards decreases the volume of the rear speakers, while turning it downwards decreases the volume of the front speakers. With 2-speaker systems, set this control to a horizontal position.

A considerable amount of sound will continue to be produced from speakers of a 4-speaker system which have been cut by setting the fader control either to the front speakers or rear speakers. This is normal and does not indicate malfunction.

● **Auto-Loudness (KE-2730B, KE-1730B)**

When playing back a tape or listening to the radio at low volume, the low and high tones are automatically emphasized.

Seek Tuning

Press both ends of tuning button and tuning to the next higher or lower broadcast on the band can be accomplished automatically by simply pressing either the right or left side of the tuning button. FM frequencies change in 50 kHz steps while those in the MW and LW bands change in 9 kHz steps.

Preset Scan Tuning

Pressing the preset scan button (CH indicator flashes) causes previously stored frequencies to be tuned in sequentially for eight seconds each. Press again when the desired frequency is tuned in to cancel preset scan tuning.

Preset Tuning

Pressing the preset button instantly tunes in the frequency programmed in the memory for that button.

Manual Tuning

When manual tuning is employed, FM frequencies change in 50 kHz steps, LW frequencies change in 1 kHz steps, and MW frequencies change in 9 kHz steps.

1. Press both ends of tuning button and the seek tuning indicator will disappear from the display.
2. Change the frequency by pressing either the left or right side of the tuning button. Pressing the button once will change the frequency one step (see above). Continuously depressing either side of the button will successively change the frequency at the prescribed step.

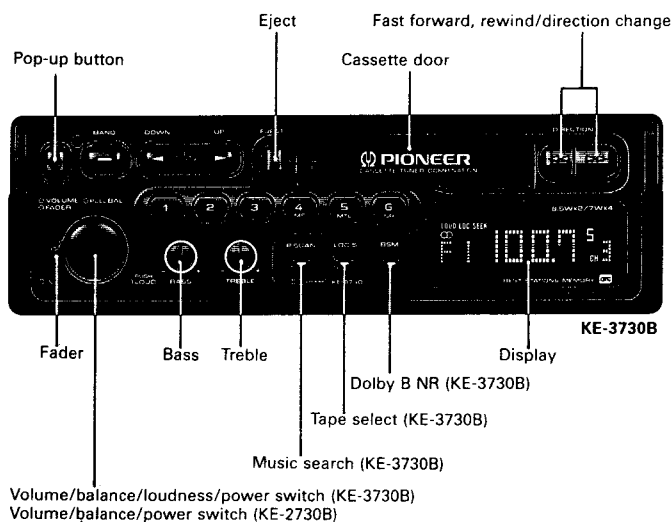
● **Pop-up button**

When the quickrelease handle is on the bottom, push the button to move it up slightly. Push it when you remove the unit from the dashboard.

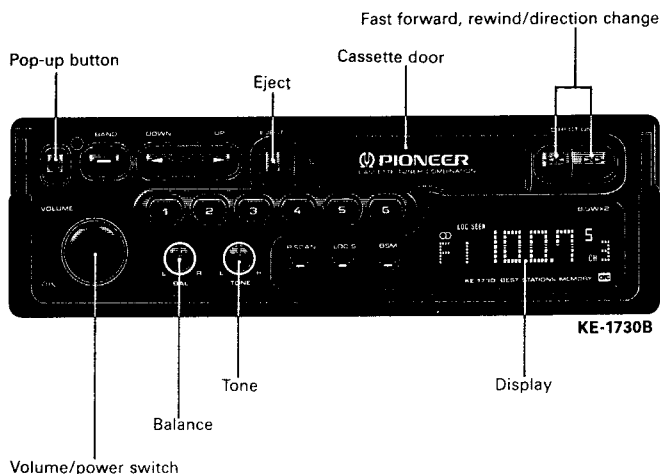
The button works only when the handle lock is released.

3. USING THE TAPE DECK

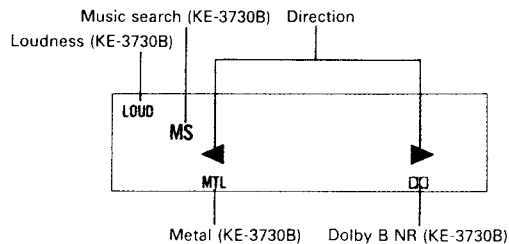
KE-3730B, KE-2730B



KE-1730B



KE-3730B, KE-2730B, KE-1730B



● Before attempting operation...

- Set the fader control to the left horizontal. (KE-2730B)
- 1. Turning the power switch to the right causes power to switch ON.
- 2. Loading a cassette tape into the load slot causes playback to begin automatically.

KE-2730B

- 3. Adjust the volume and balance. To adjust the balance, first pull the knob until a click is heard. After setting to the desired level, push the knob in again to its original position.

KE-1730B

- 3. Adjust the volume and balance.
- 4. Adjust the tone.
- 5. When tape playback reaches the end of the tape, playback will automatically switch from the side being played to the opposite side (ie. Side A to Side B or vice versa) (Auto-reverse). To eject the tape during playback, press the eject button.
- A loose or warped label on a cassette tape may interfere with the eject mechanism of the unit or cause the cassette to become jammed in the unit. Avoid using such tapes or remove such labels from the cassette before attempting use.
- Do not try to eject the cassette immediately after insertion, as it will cause malfunction. Wait a few seconds.
- Loose tapes should be rewound with the aid of a pencil and unevenly wound tapes rewound with the use of the fast forward function.
- Be sure to eject the tape when the vehicle's ignition is turned OFF. Leaving the tape in the unit can deform the pinch roller causing wow and flutter during tape playback.

● Fast Forward/Rewind

Since the transport can be in either direction, both the left and right high-speed tape transport buttons can be regarded as fast forward/rewind buttons.

For fast forward, press the high-speed tape transport button that corresponds to the direction that is shown by the direction indicator. When the end of the tape is reached, playback will automatically begin from the opposite side of the tape (Auto-reverse).

For rewind, press the button that is opposite that of the direction shown by the direction indicator. When the end of the tape is reached, playback will automatically begin from the beginning of the same side of the tape (Auto-replay).

Fast forward and rewind can be terminated by pressing the respective opposite high-speed tape transport button.

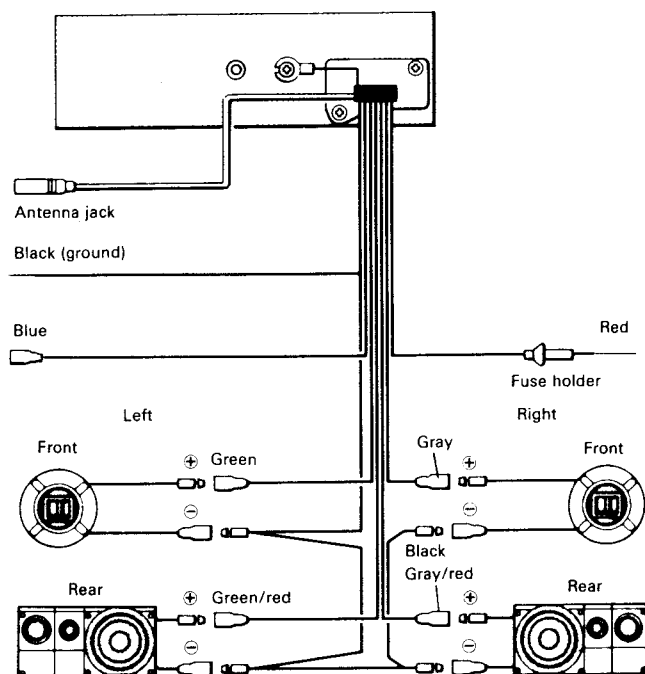
● Direction Change

Push the fast forward and rewind buttons together to switch from one side of the tape to the other (from Side A to Side B or vice versa).

4. CONNECTIONS

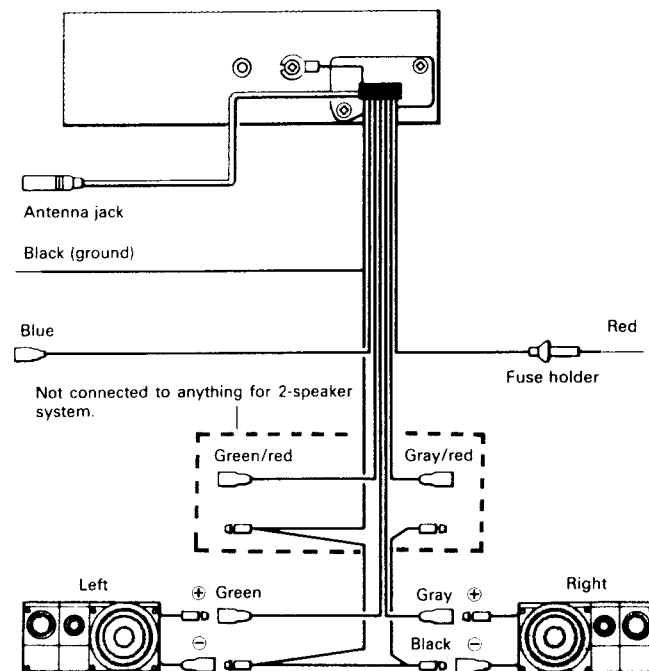
KE-2700SDK, KE-2730B, KE-2700B

4-speaker system

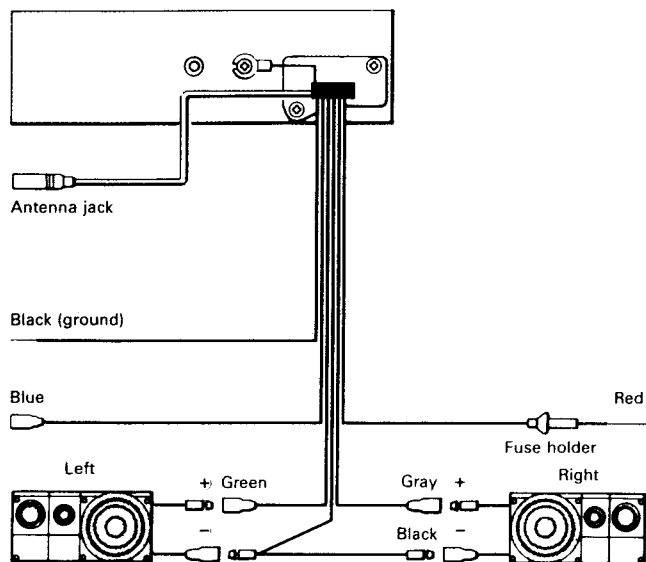


KE-2700SDK, KE-2730B, KE-2700B

2-speaker system



KE-1700SDK, KE-1730B, KE-1700B



Note:

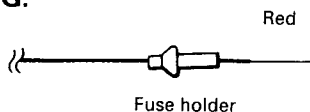
- To avoid shorts in the electrical system, be sure to disconnect the battery ⊖ cable before beginning installation.
- Replace the fuse only with the type stipulated on the fuse holder.
- Be sure to properly connect the color coded leads. Failure to do so can cause malfunctions.
- Cover unused terminals with tape to prevent electrical shorts.

Black (ground)	To vehicle (metal) body.
Blue	To auto-antenna power terminal (Max. 300 mA 12 V DC).
Red	To electric terminal controlled by ignition switch (12 V DC) ON/OFF.

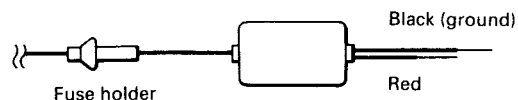
ERRATUM (KE-2700SDK, KE-1700SDK)

There is a mistake in the "Connections" section in the Owner's Manual. The red lead in the illustration should be changed as follows:

WRONG:



RIGHT:



Black (ground)	To vehicle (metal) body.
Red	To electric terminal controlled by ignition switch (12 V DC) ON/OFF.

• CAUTION

It is very dangerous to short the red and black leads together. Before connecting the leads, read the "Connections" section in the Owner's manual, and connect the leads carefully.

5. DISASSEMBLY

● Removing the Case

1. Insert and turn a screwdriver to remove the case.
2. Raise the case to remove.

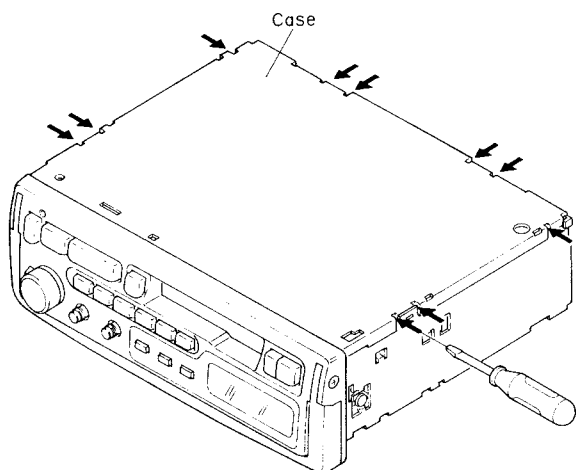


Fig. 1

● Removing the Handle

1. Remove the two screws, and then remove the handle.

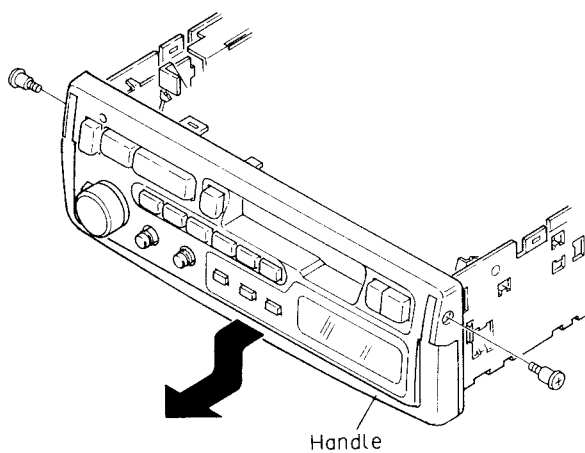


Fig. 2

● Removing the Grille Assy

1. Remove the two knobs.
(KE-2700SDK, KE-2730B, KE-2700B)
2. Remove the knob.
(KE-1700SDK, KE-1730B, KE-1700B)
3. Press the tabs at four locations, and then pull out the grille assy.

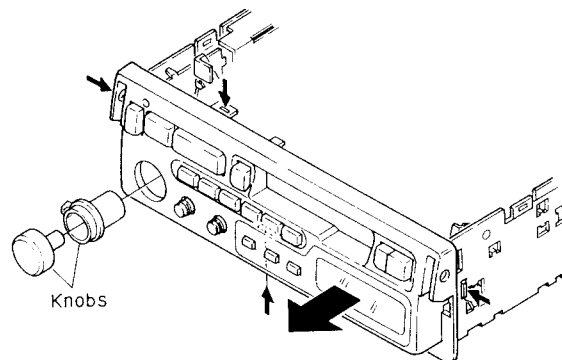


Fig. 3

● Removing the Cassette Mechanism Assy

1. Disconnect the connector.
2. Remove the four screws A and four screws B.
3. Remove the cassette mechanism assy.

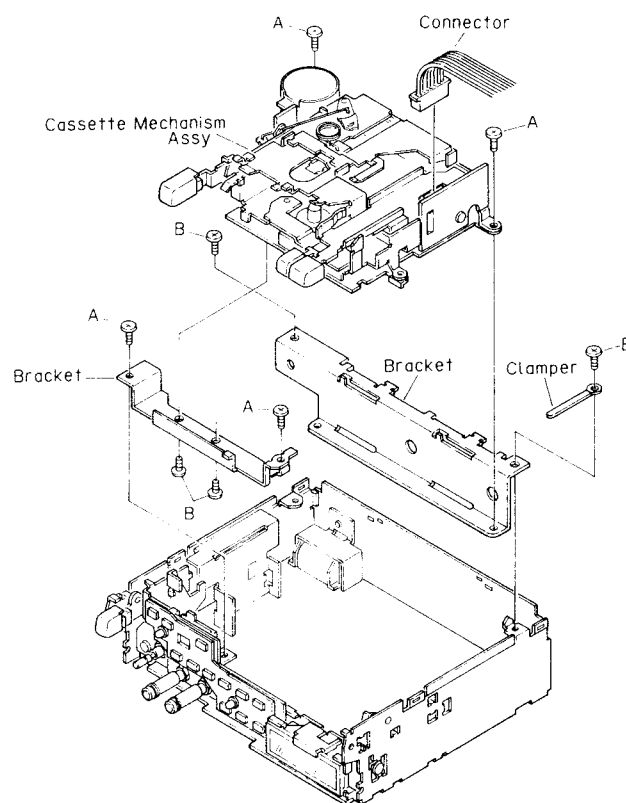


Fig. 4

- **Removing the SDK P.C. board
(KE-2700SDK, KE-1700SDK)**

1. Pull out the SDK P.C. board.

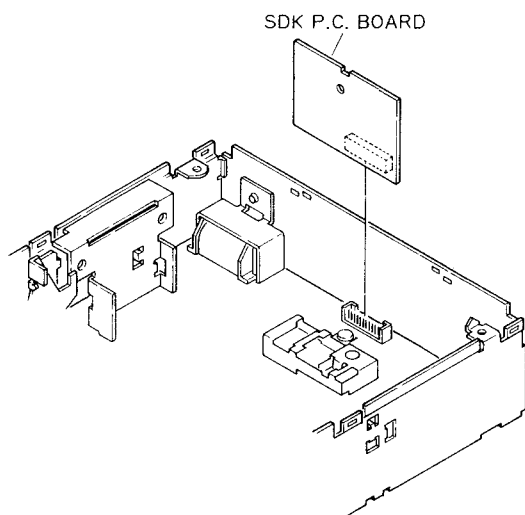


Fig. 5

- **Removing the Tuner Amp Unit**

1. Remove the four screws C.
2. Raise up on tuner amp unit to remove it from the chassis unit.

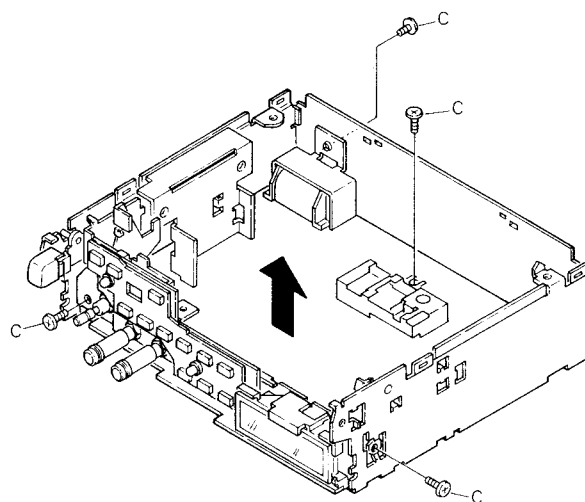


Fig. 6

6. BLOCK DIAGRAM

• KE-2700B

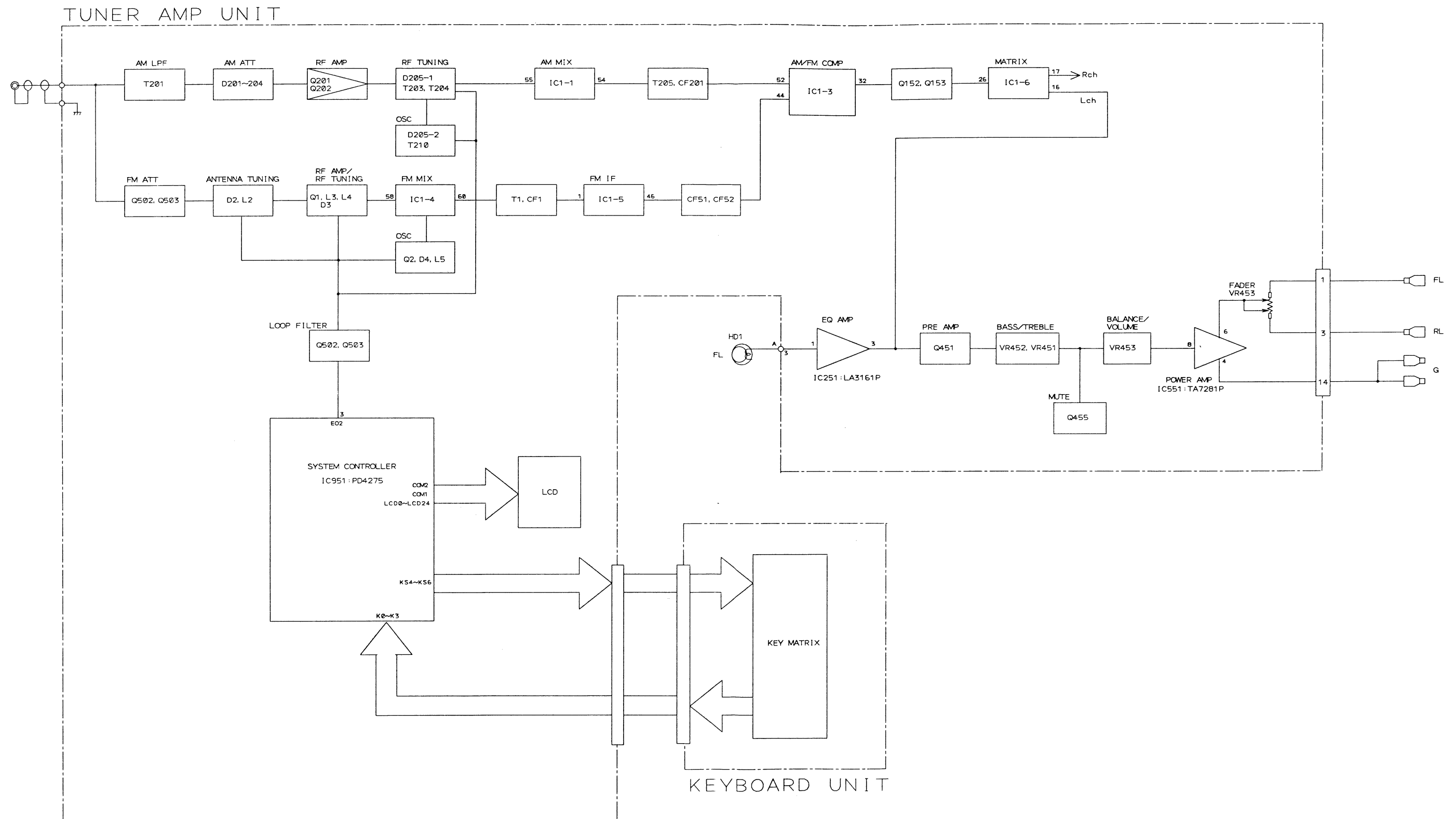


Fig. 7

7. ADJUSTMENT

● Connection Diagram

NOTICE:
Select C1 so that total capacity of 80pF is attained from the direction of the receiver jack.
Z: Output impedance of SSG.

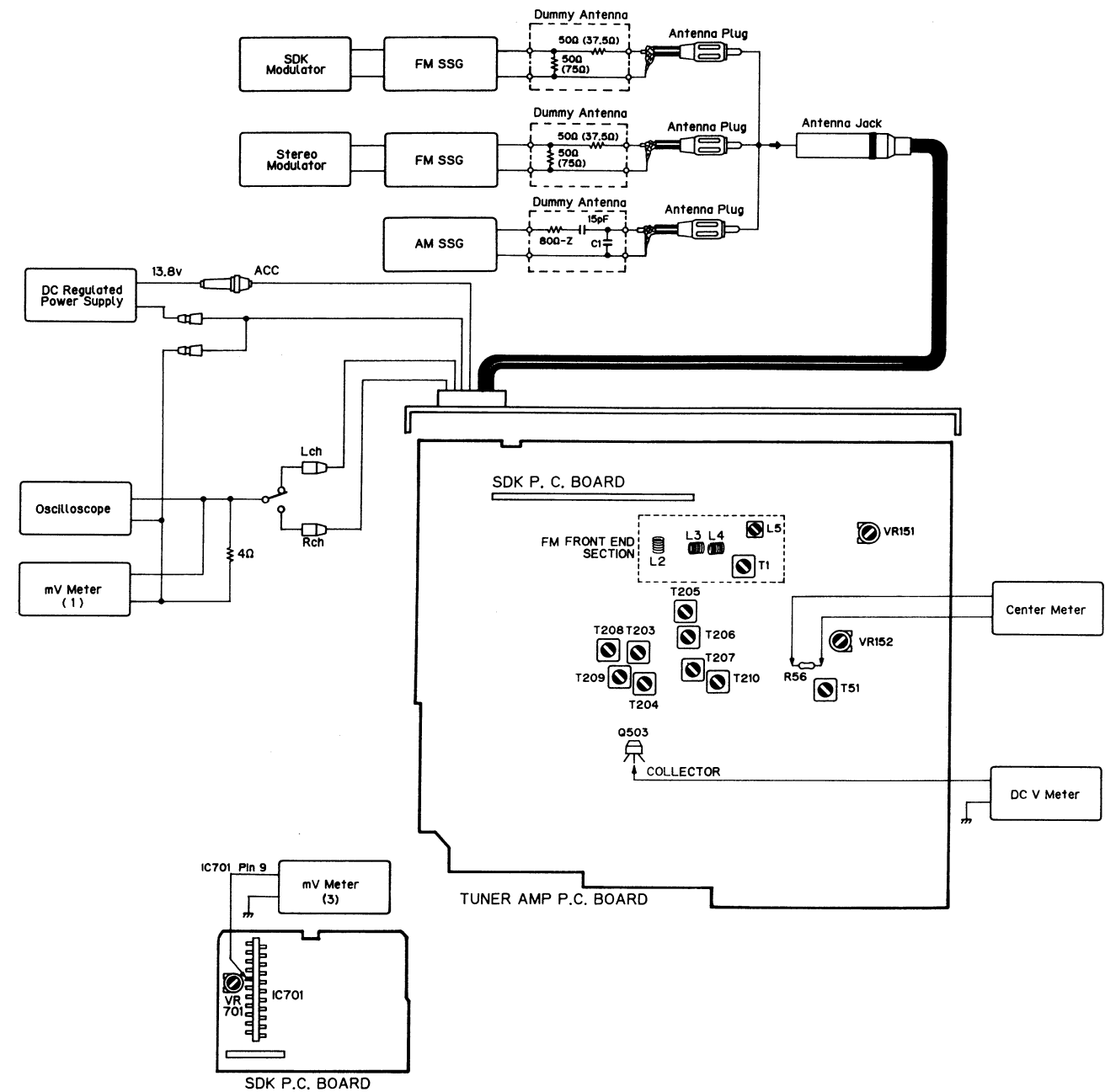


Fig. 8

FM ADJUSTMENT

※ 1 Stereo MOD. : Pilot=10%
※ 2 Stereo MOD. : 1kHz, L+R=90% , Pilot=10%

	No.	FM SSG (400Hz, 100%)		Displayed Frequency (MHz)	Adjusting Point	Adjustment Method (Switch Position)
		Frequency (MHz)	Level (dBf)			
Tuning Volt	1	—	—	108.0	L5	DC V Meter:7.0V
Tracking	1	98.1	15	98.1	L2, L4	mV Meter (1):Maximum
	2	98.1	15	98.1	T1	mV Meter (1):Maximum
IF	1	98.1 Unmodulated	65	98.1	T51	Center Meter:0
Pilot Cancel	1	98.1※ 1	65	98.1	VR151	mV Meter (1):Minimum (MPX Filter:OFF)
ARC	1	98.1※ 2	40	98.1	VR152	mV Meter (1):Separation 5dB

AM ADJUSTMENT
(KE-2700SDK, KE-2700B, KE-1700SDK, KE-1700B)

	No.	AM SSG (400Hz, 30%)		Displayed Frequency (kHz)	Adjusting Point	Adjustment Method (Switch Position)
		Frequency (kHz)	Level (dBμV)			
Tuning Volt	1	—	—	530	T210	DC V Meter:1.0V
Tracking	1	1,000	20	1,000	T203, 204, 205, 206	mV Meter (1):Maximum

MW/LW ADJUSTMENT (KE-2730B, KE-1730B)

	No.	AM SSG (400Hz, 30%)		Displayed Frequency (kHz)	Adjusting Point	Adjustment Method (Switch Position)
		Frequency (kHz)	Level (dB μ V)			
Tuning Volt	1	—	—	531	T210	DC V Meter:1.0V
	2	—	—	153	T207	DC V Meter:3.0V
Tracking	1	999	20	999	T203, 204, 205, 206	mV Meter (1):Maximum
	1	216	20	216	T208, 209	mV Meter (1):Maximum

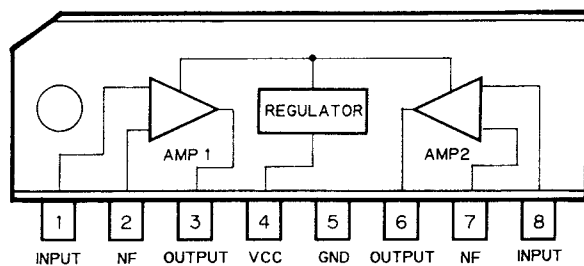
SDK ADJUSTMENT (KE-2700SDK, KE-1700SDK)

※ 3 : SDK MOD. : SK (57kHz)=5%

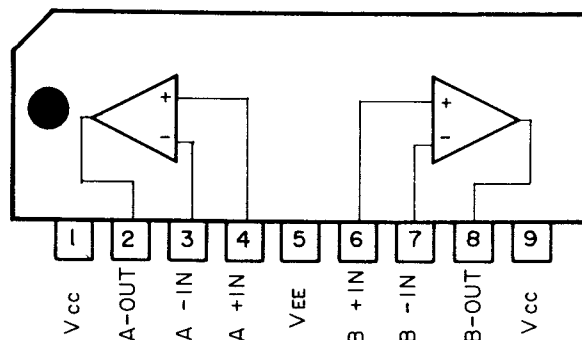
	No.	FM SSG (400Hz, 100%)		Displayed Frequency (MHz)	Adjusting Point	Adjustment Method (Switch Position)
		Frequency (MHz)	Level (dBf)			
	1	98.1※ 3	65	98.1	VR701	mV Meter (3):Maximum

• ICs

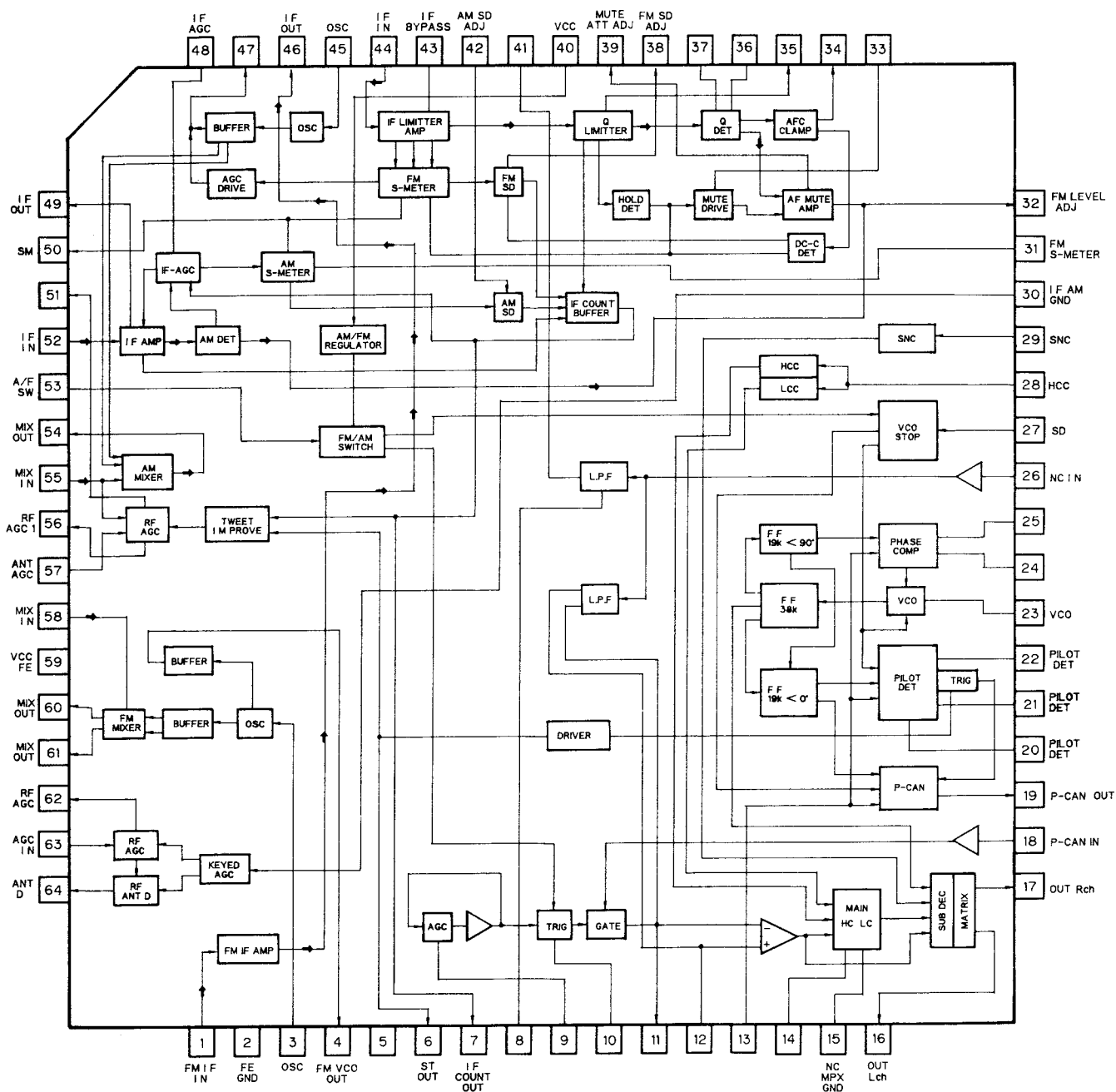
LA3161P



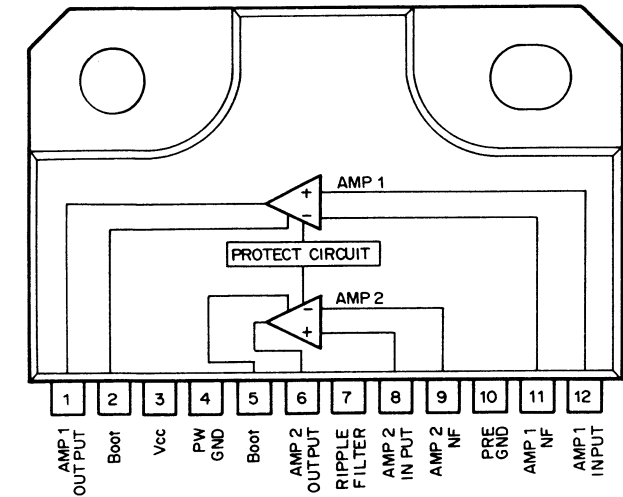
TA75558S



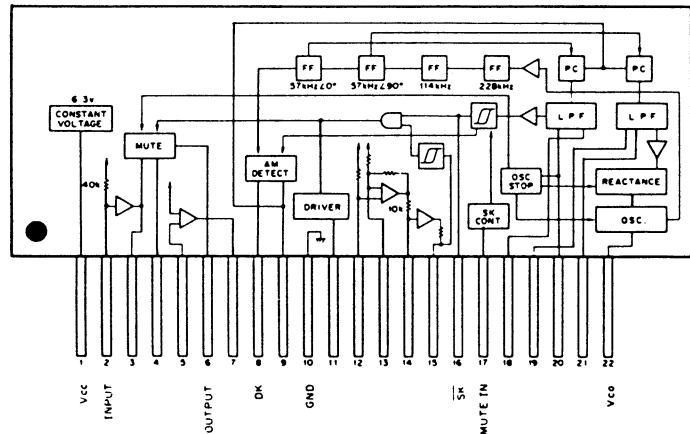
PAC001A



TA7281P
TA 7281P

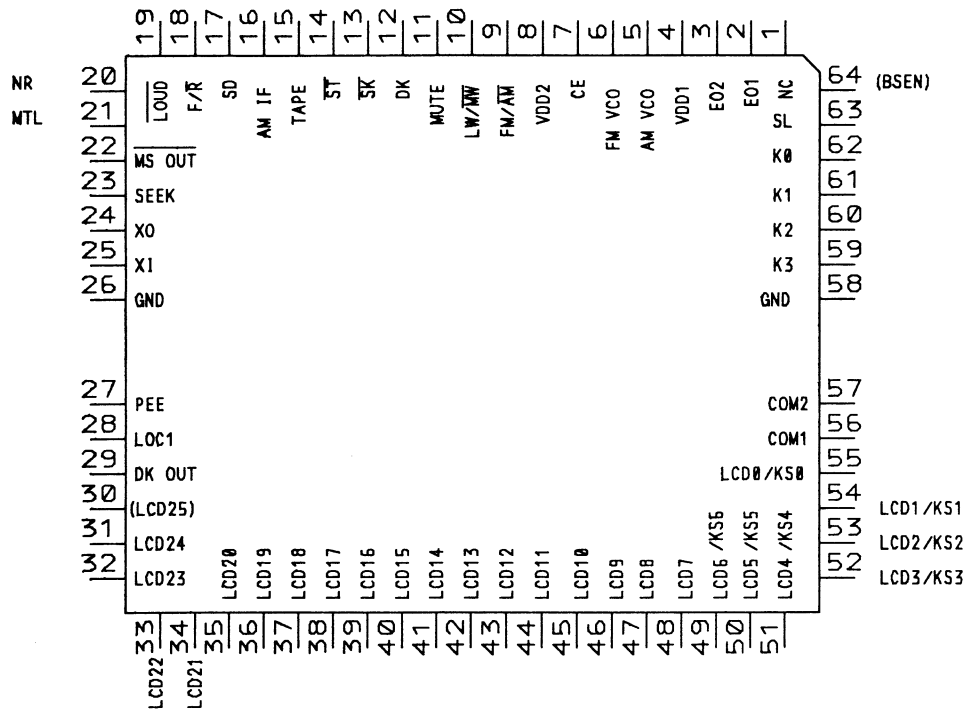


LA2220



*PD4275

IC's marked by * are MOS type.
Be careful in handling them because they are very
liable to be damaged by electrostatic induction.



● Pin Function (PD4275)

Pin No.	Pin Name	I/O	Output Format	Function and Operation
1	NC		C	Not used
2	E01	Output	G(3)	PLL error output pins
3	E02			
4	VDD1			Device power supply pin
8	VDD2			
5	VCOL	Input		AM local oscillator signal input pin
6	VCOH	Input		FM local oscillator signal input pin
7	CE	Input		Chip enable input pin
9	FM/AM	Output	C	FM/AM band select pin "H":FM "L":AM
10	LW	Output	C	Loop filter switching output pin "H":LW
11	MUTE	Output	C	Mute output pin "H":ON
12	DK	INPUT		SK signal input pin
13	SK	INPUT		DK signal input pin
14	ST	Input		Stereo broadcast detection signal input pin "L":Stereo indicator is displayed
15	TAPE	INPUT		Tape power ON/OFF input pin "H":ON
16	AMIF	Input		AM IF signal input pin
17	SD	Input		FM SD input "H":During broadcast reception
18	F/REV	Input		Tape motion signal input pin "H":Forward
19	LOUD	Input		Loudness ON/OFF signal input pin "L":ON
20	NR	Output	C	Dolby NR ON/OFF output pin "H":ON
21	METAL	Output	C	Tape METAL ON/OFF output pin "L":ON
22	MSOUT	Output	C	Tape MS ON/OFF output pin "L":ON
23	SEEK	Output	C	"H" level:SEEK, BSM, BSA and PSCAN
24	XO	Output	C	Quartz oscillator terminal
25	XI	Input		
26	GND			GND terminal
27	PEE	Output	C	Alarm output pin
28	LOC1	Output	C	Halt sensitivity switching pin "L":DX SEEK(P. SCAN) "H":LOC SEEK
29	DKOUT	Output	C	Control by DK (terminal #12) input signal "H":DK input signal is detected as 125Hz
30	NC			Not used

Pin No.	P N
31	LCD
55	LCD
48	KS7
55	KS0
56	COM
57	COM
59	K3
62	K0
63	SL
64	NC

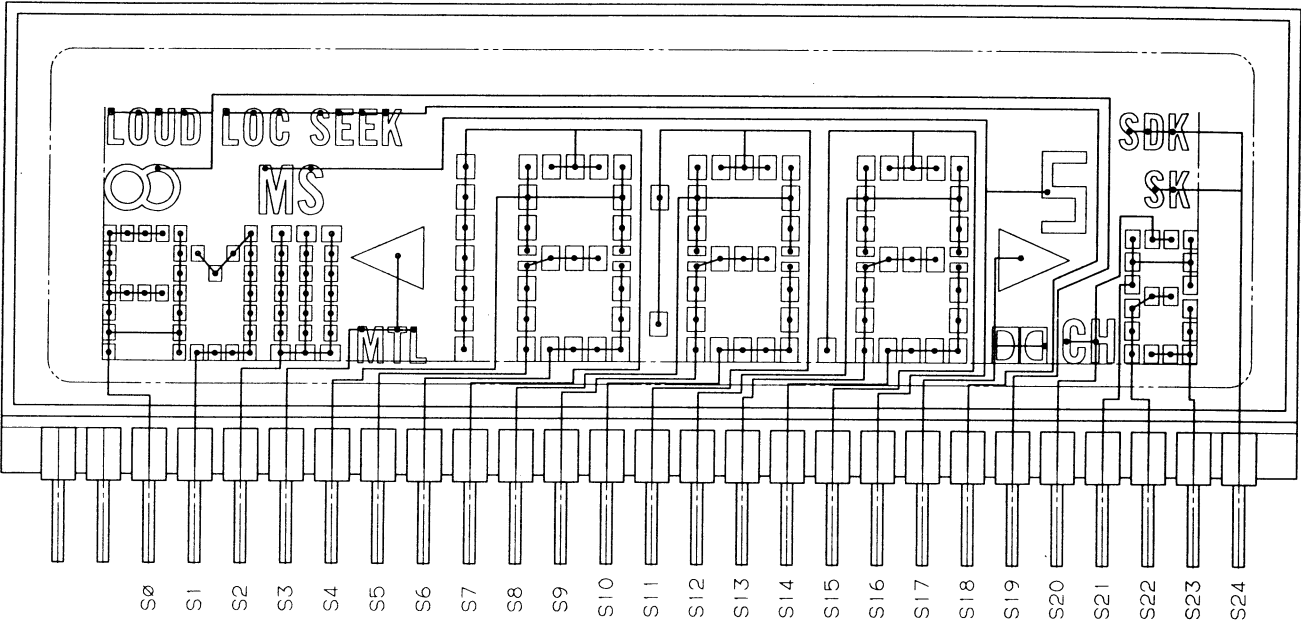
Output
C
C

Pin No.	Pin Name	I/O	Output Format	Function and Operation
31 | 55	LCD24 | LCD0	Output	C	Segment signal output pins to LCD
48 | 55	KS7 | KS0	Output	C	Key matrix strobe output pins
56 57	COM1 COM2	Output	C	Common signal output pins to LCD
59 | 62	K3 | K0	Input		Key matrix return input pins
63	SL	Input		AM station level analog input pin
64	NC		C	Not used

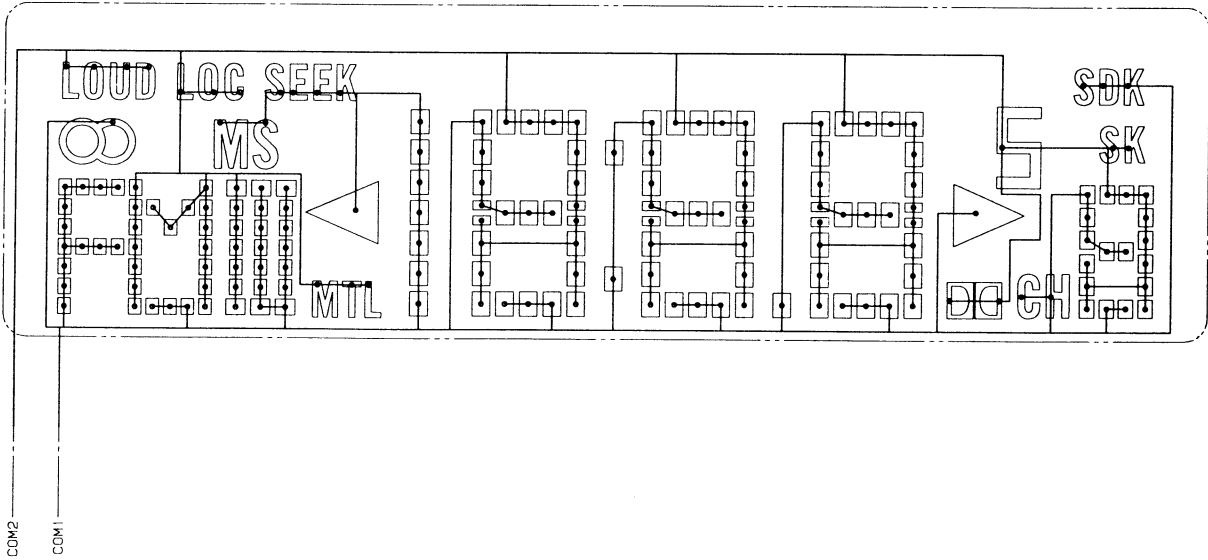
Output format	Meaning
C	C-MOS
C(3)	C-MOS(3 State)

• LCD(CAW1097)

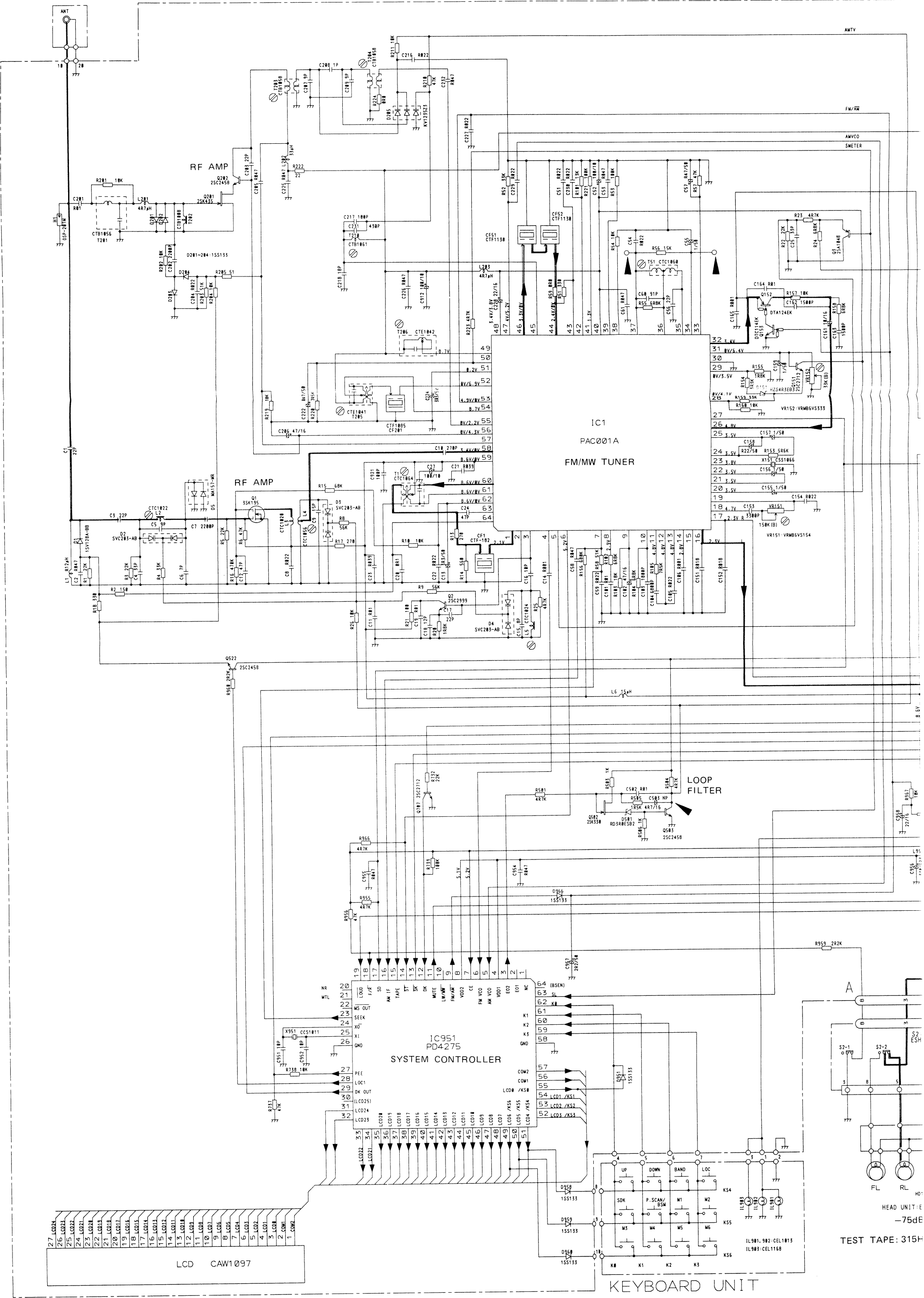
SEGMENT



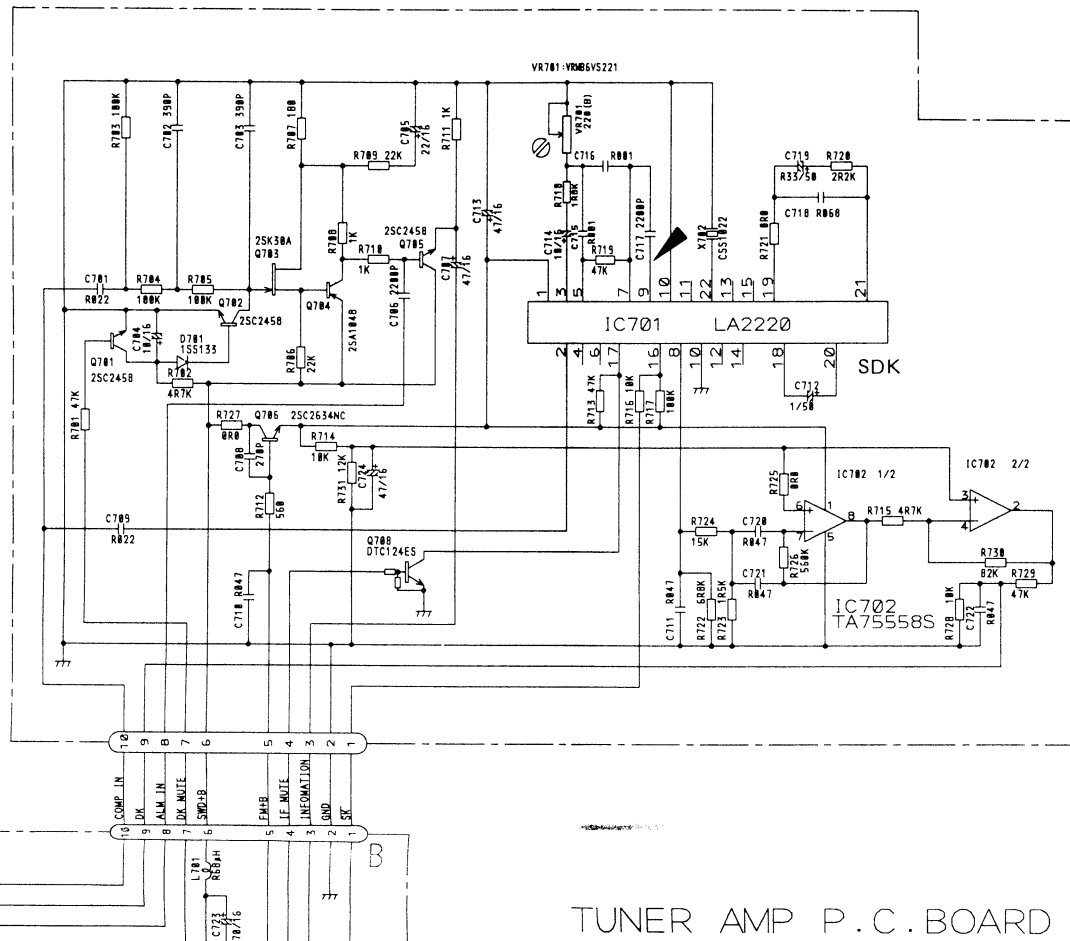
COMMON



9. SCHEMATIC CIRCUIT DIAGRAM (KE-2700SDK)



SDK P.C. BOARD



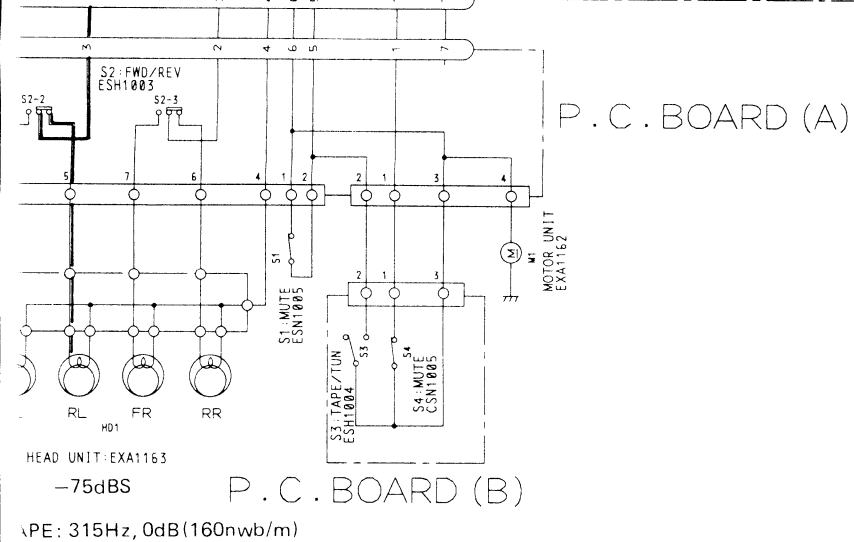
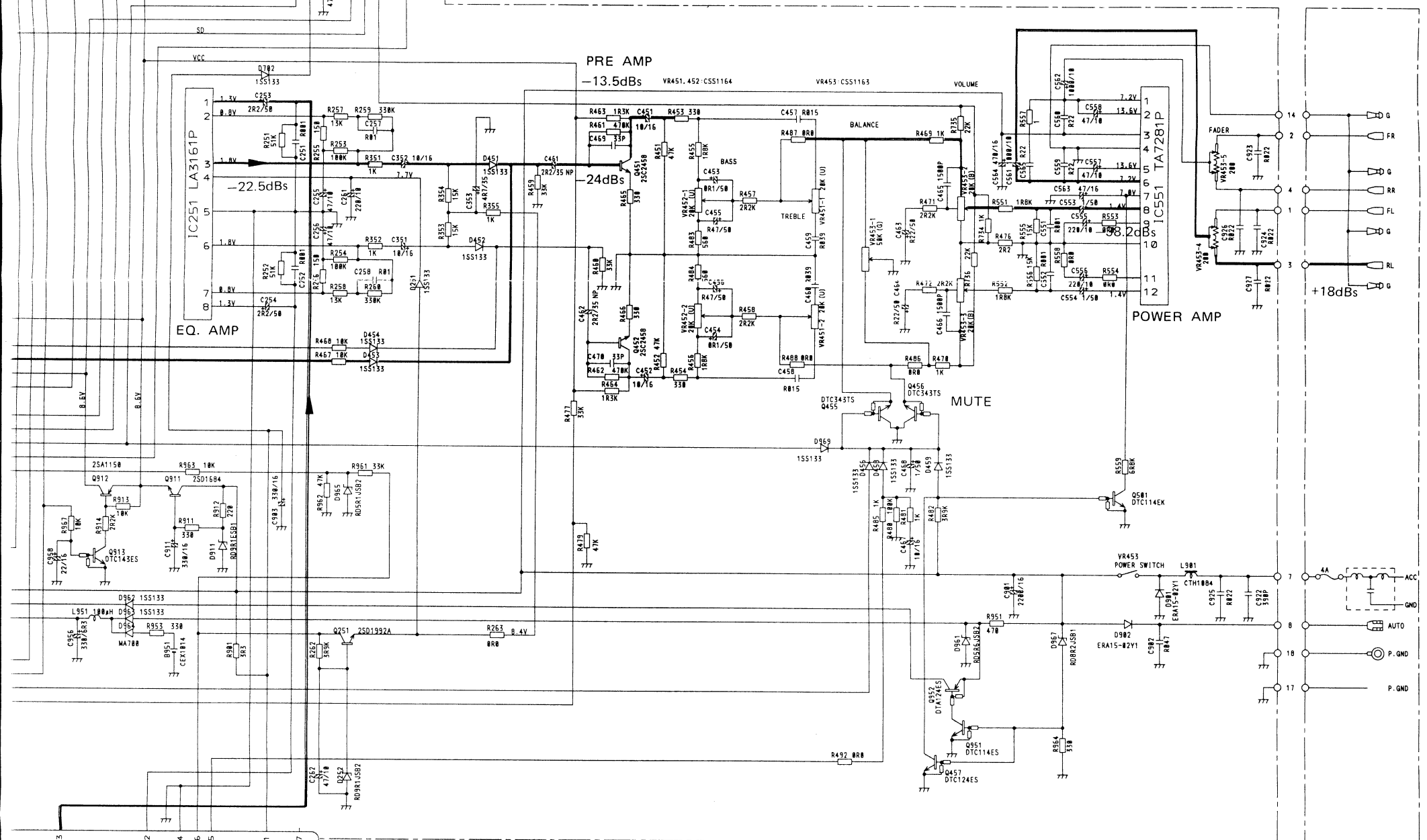
TUNER AMP UNIT
Consists of
● SDK P.C. BOARD
● TUNER AMP P.C. BOARD

NOTE:

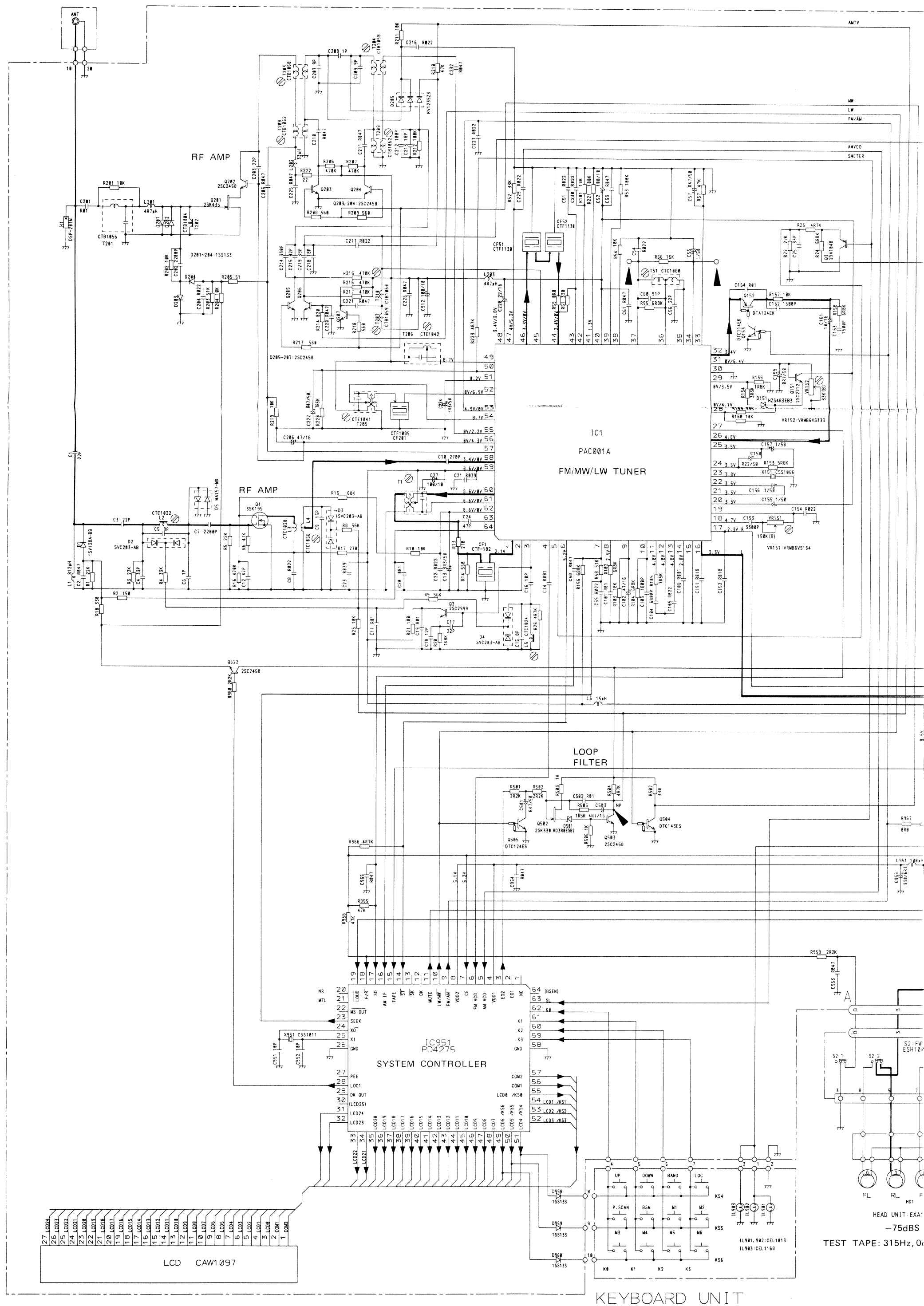
- Symbol indicates a resistor.
No differentiation is made between chip resistors and discrete resistors.
- |— Symbol indicates a capacitor.
No differentiation is made between chip capacitors and discrete capacitors.

Decimal points for resistor
and capacitor fixed values
are expressed as:
2.2→2R2
0.022→R022

TUNER AMP P.C. BOARD



10. SCHEMATIC CIRCUIT DIAGRAM (KE-2730B)



NOTE:

- Symbol indicates a resistor.
No differentiation is made between chip resistors and discrete resistors.
- ⊢ Symbol indicates a capacitor.
No differentiation is made between chip capacitors and discrete capacitors.

Decimal points for resistor and capacitor fixed values are expressed as:
2.2→2R2
0.022→R022

TUNER AMP UNIT

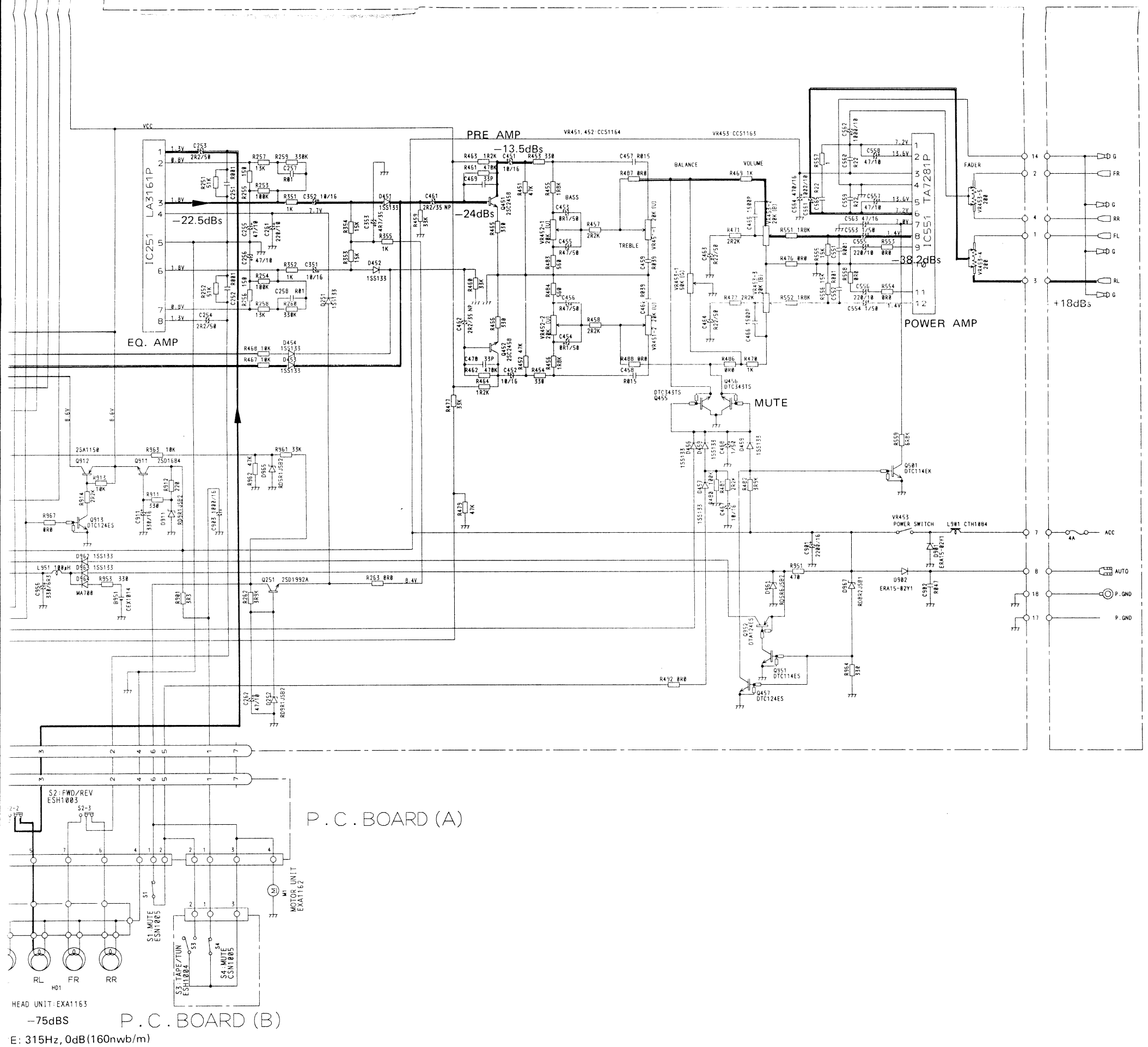
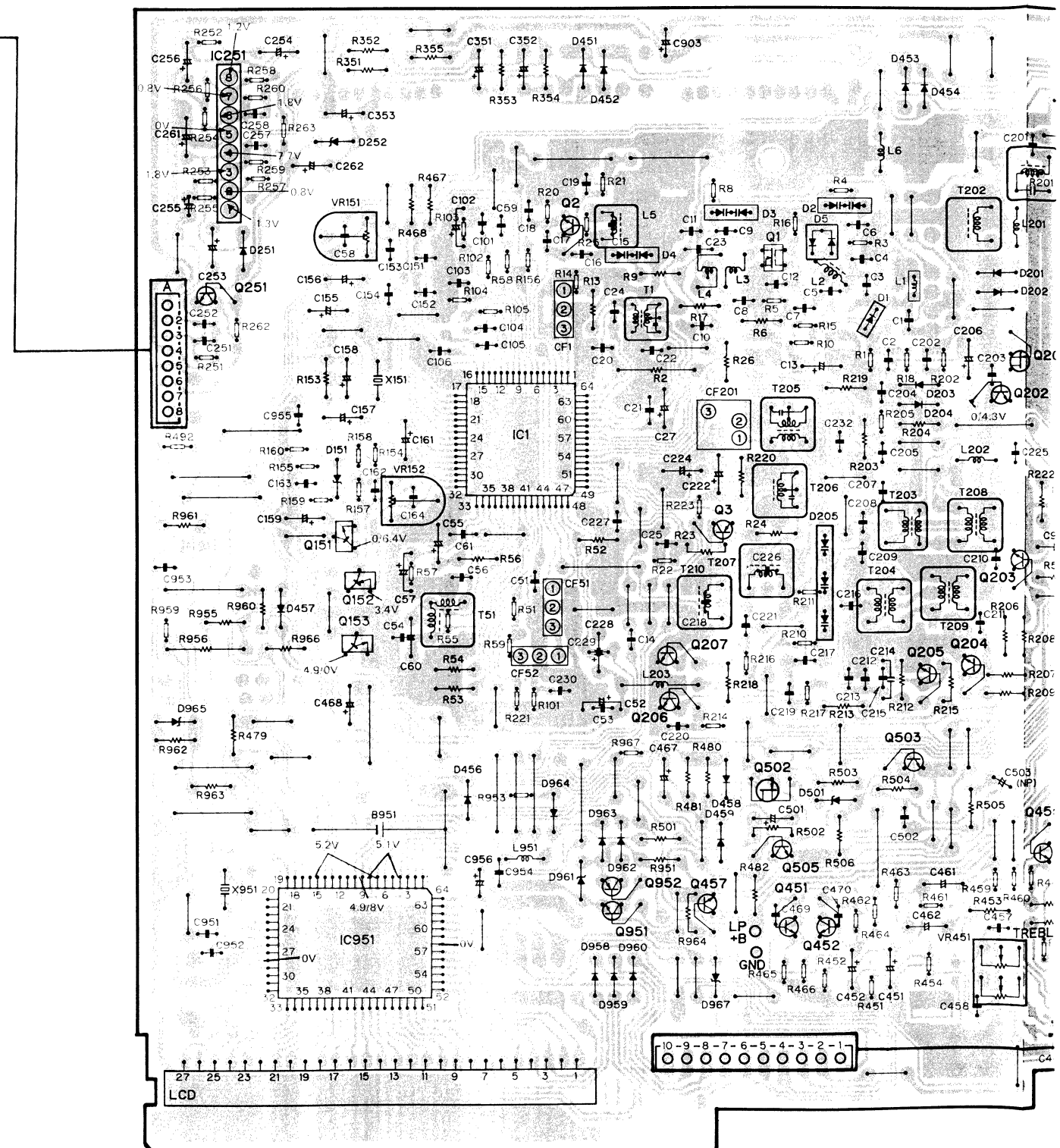


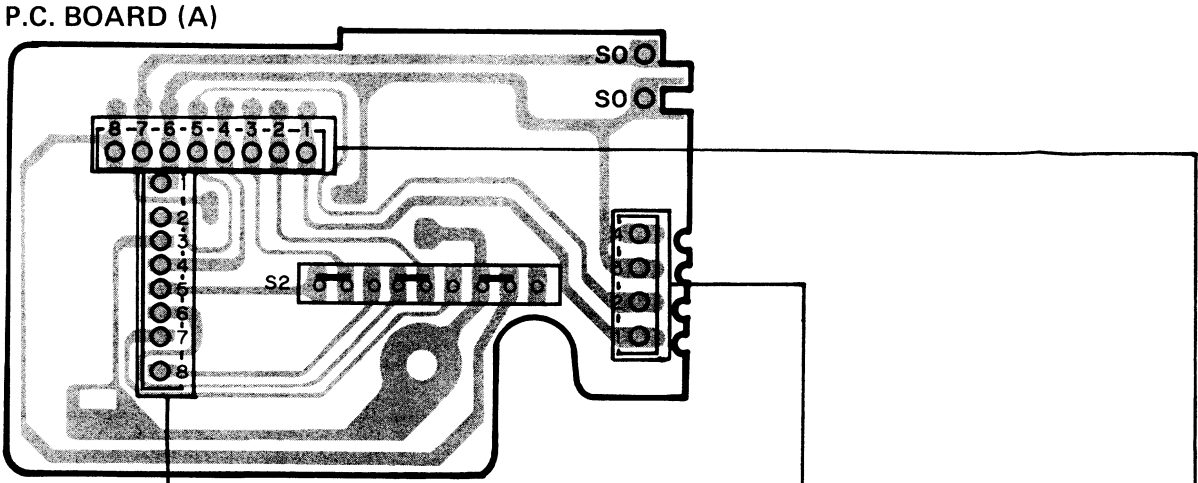
Fig. 11

6

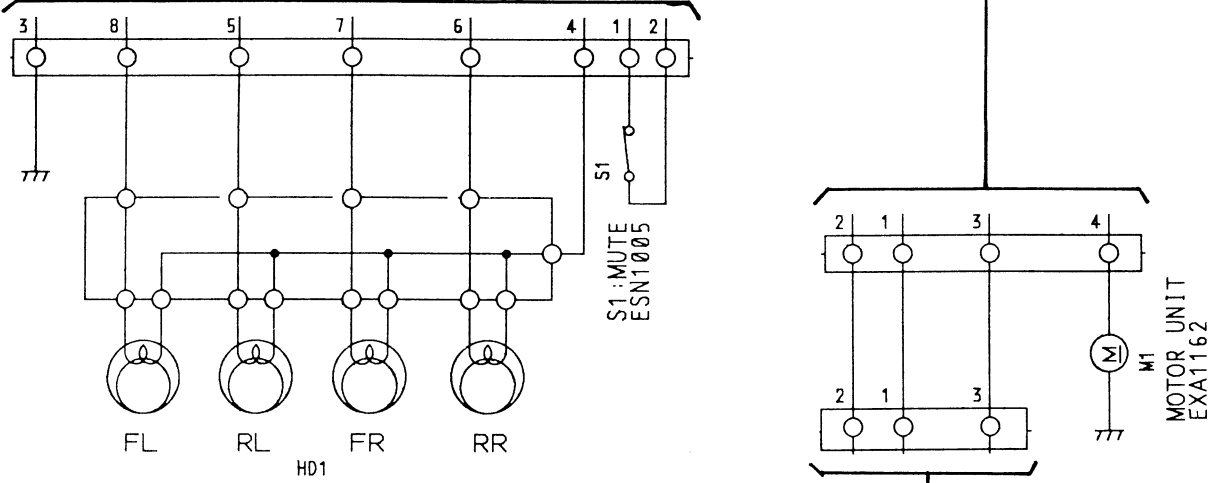


12. CONNECTION DIAGRAM (KE-2700B)

A

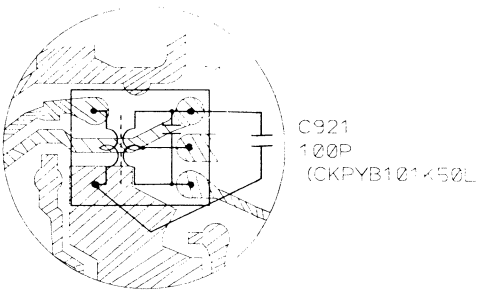
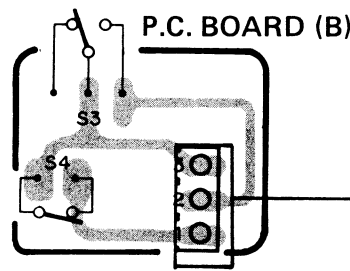


B



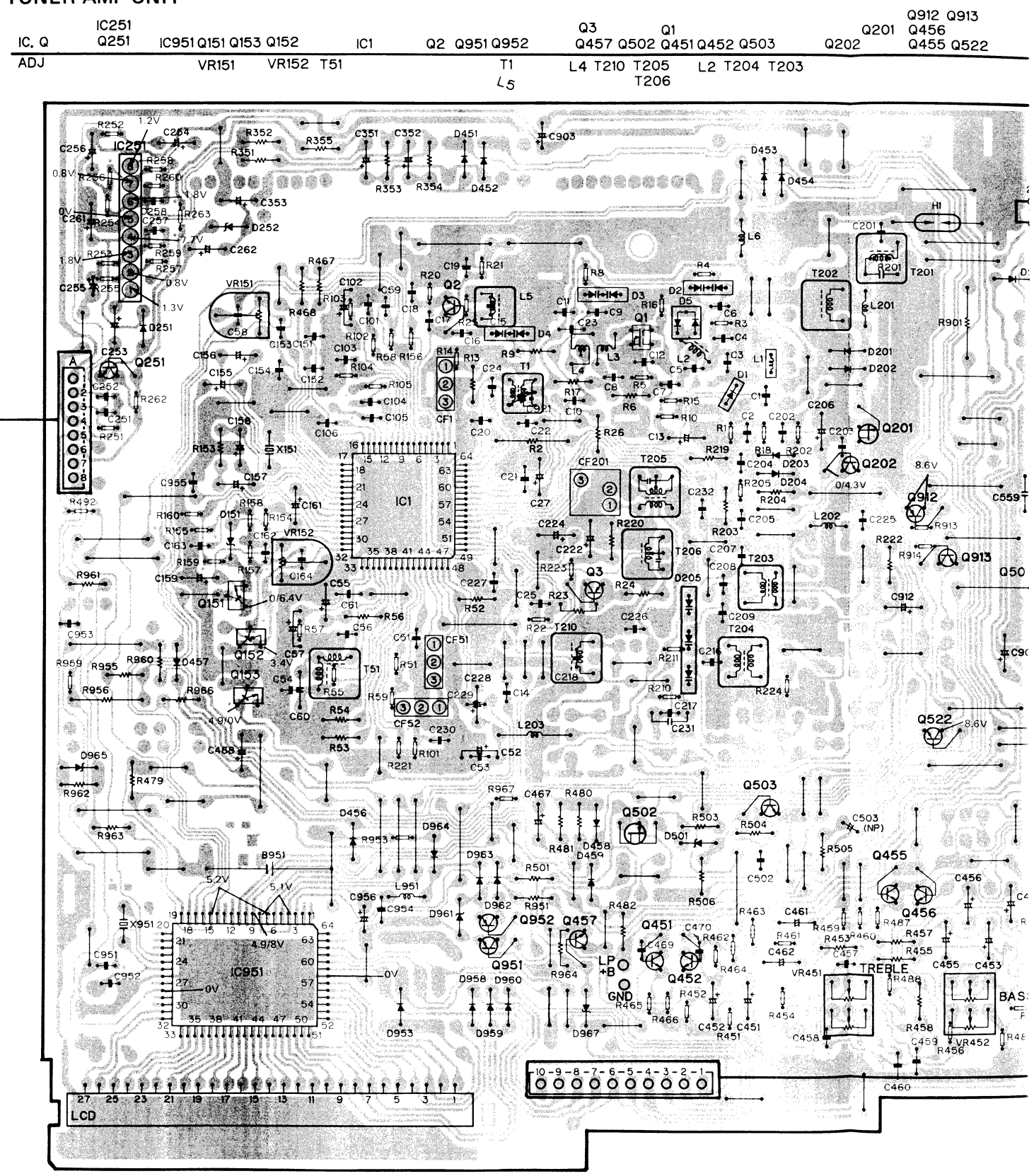
C

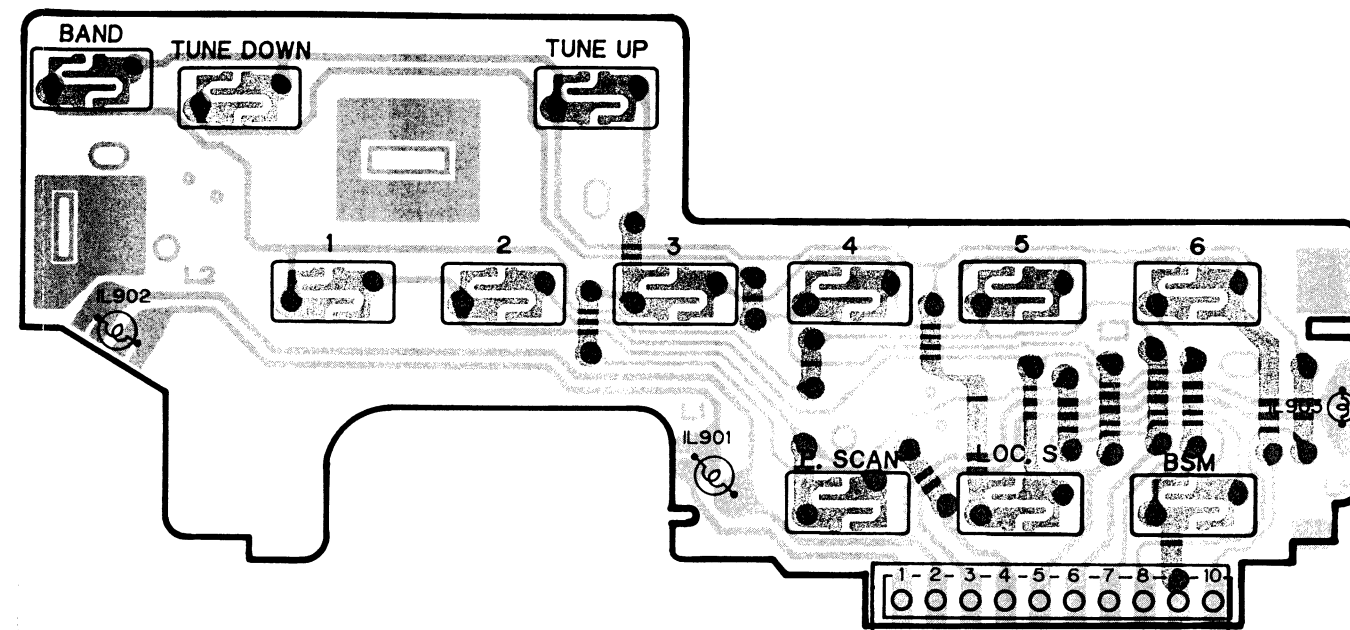
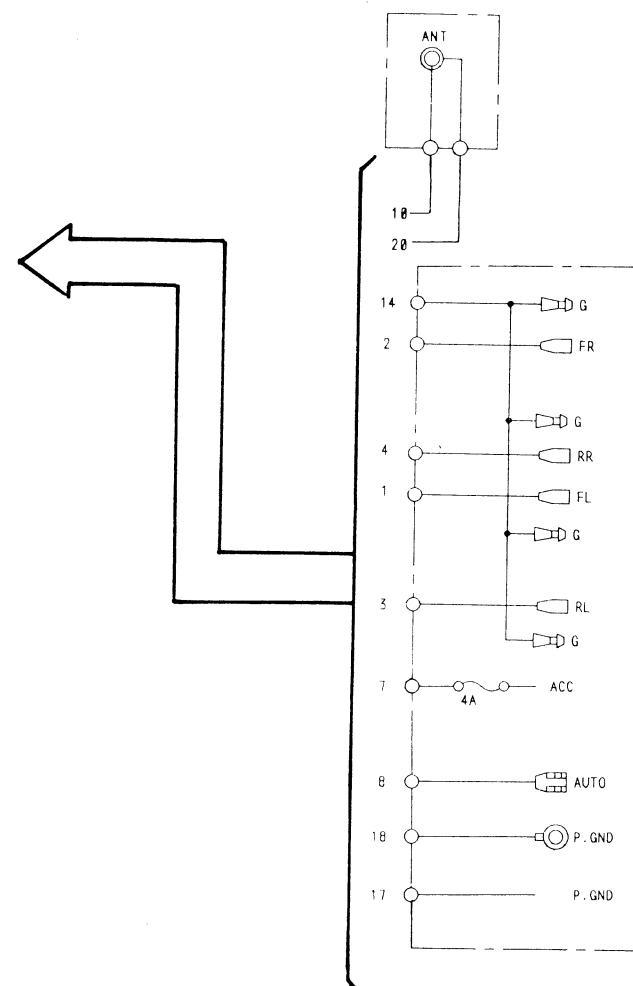
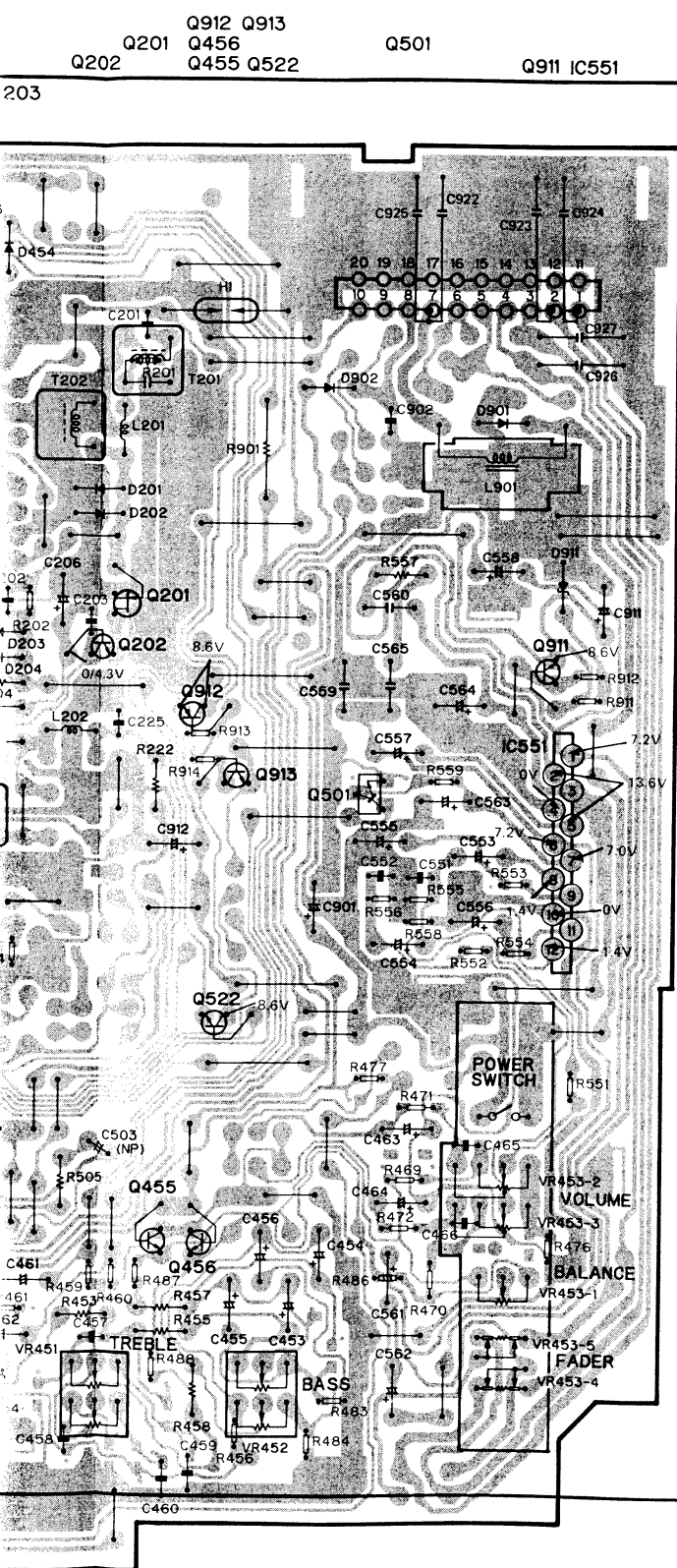
HEAD UNIT: EXA1163



There is a C921 unit fitted with a ceramic capacitor instead of a chip capacitor. Both units are interchangeable with each other.

TUNER AMP UNIT





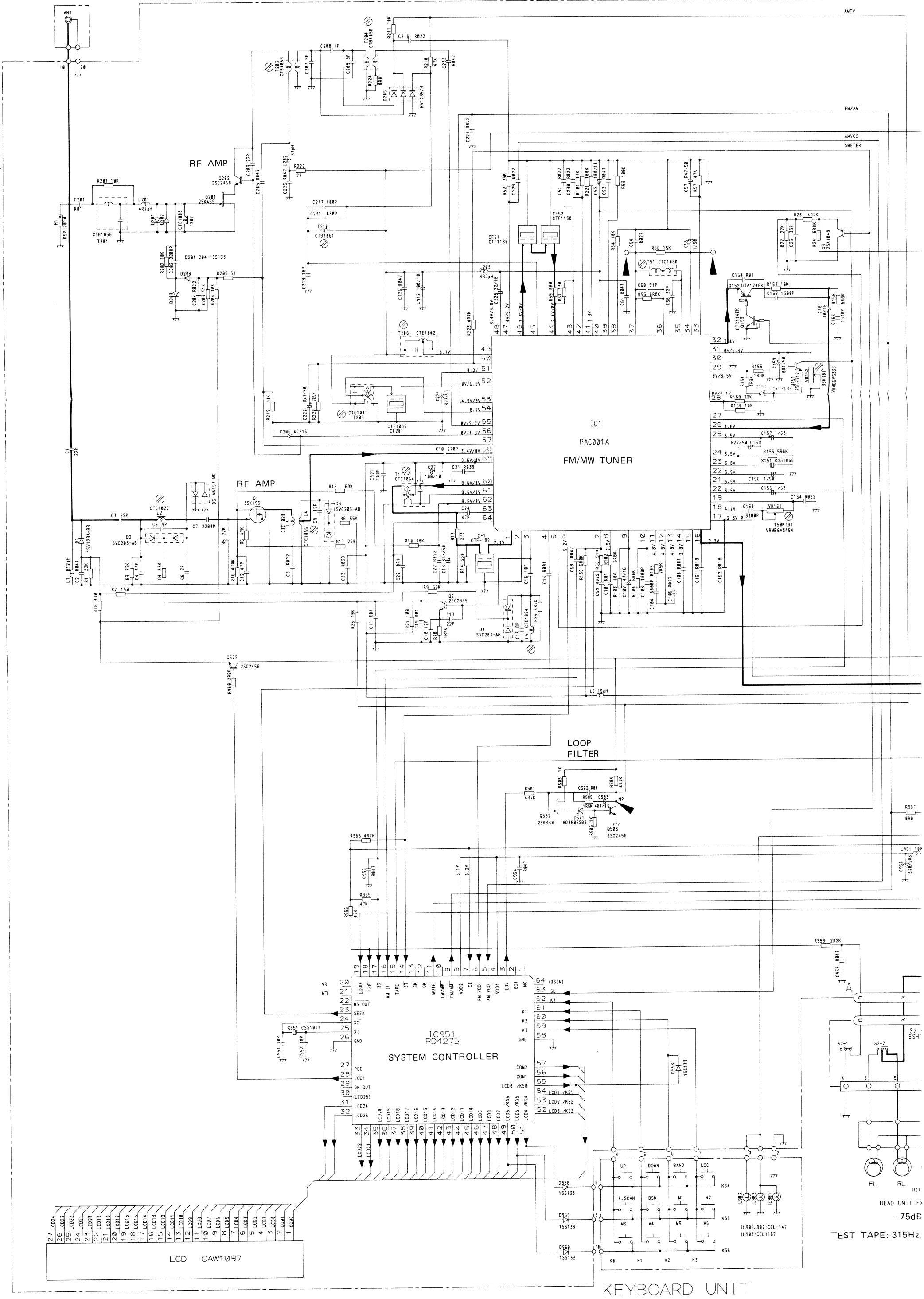
TUNER AMP UNIT: IC1

1	2	3	4	5	6	7	8	9	10
2.1V	0V				5.2V		2.9V		
11	12	13	14	15	16	17	18	19	20
4.8V	4.8V	4.8V	2.8V	0V	2.3V	2.3V	4.7V		3.5V
21	22	23	24	25	26	27	28	29	30
3.5V	3.5V	3.8V	3.5V	3.5V	4.8V		0/4.1V	0/3.5V	0V
31	32	33	34	35	36	37	38	39	40
0/6.4V	3.4V								
41	42	43	44	45	46	47	48	49	50
1.3V			2.4/0V		3.3/0V	4/5.2V	3.4/3.8V	8.7V	
51	52	53	54	55	56	57	58	59	60
0.2V	0/6.9V	4.9/0V	8.7V	0/2.2V	0/4.3V		3.4/0V	8.6/0V	8.6/0V
61	62	63	64						
8.6/0V	8.6/0V								

Fig. 13

13. SCHEMATIC CIRCUIT DIAGRAM (KE-2700B)

A
B
C
D
E
F



NOTE :

- Symbol indicates a resistor.
No differentiation is made between chip resistors and discrete resistors.
- |— Symbol indicates a capacitor.
No differentiation is made between chip capacitors and discrete capacitors.

Decimal points for resistor and capacitor fixed values are expressed as:
2.2→2R2
0.022→R022

TUNER AMP UNIT

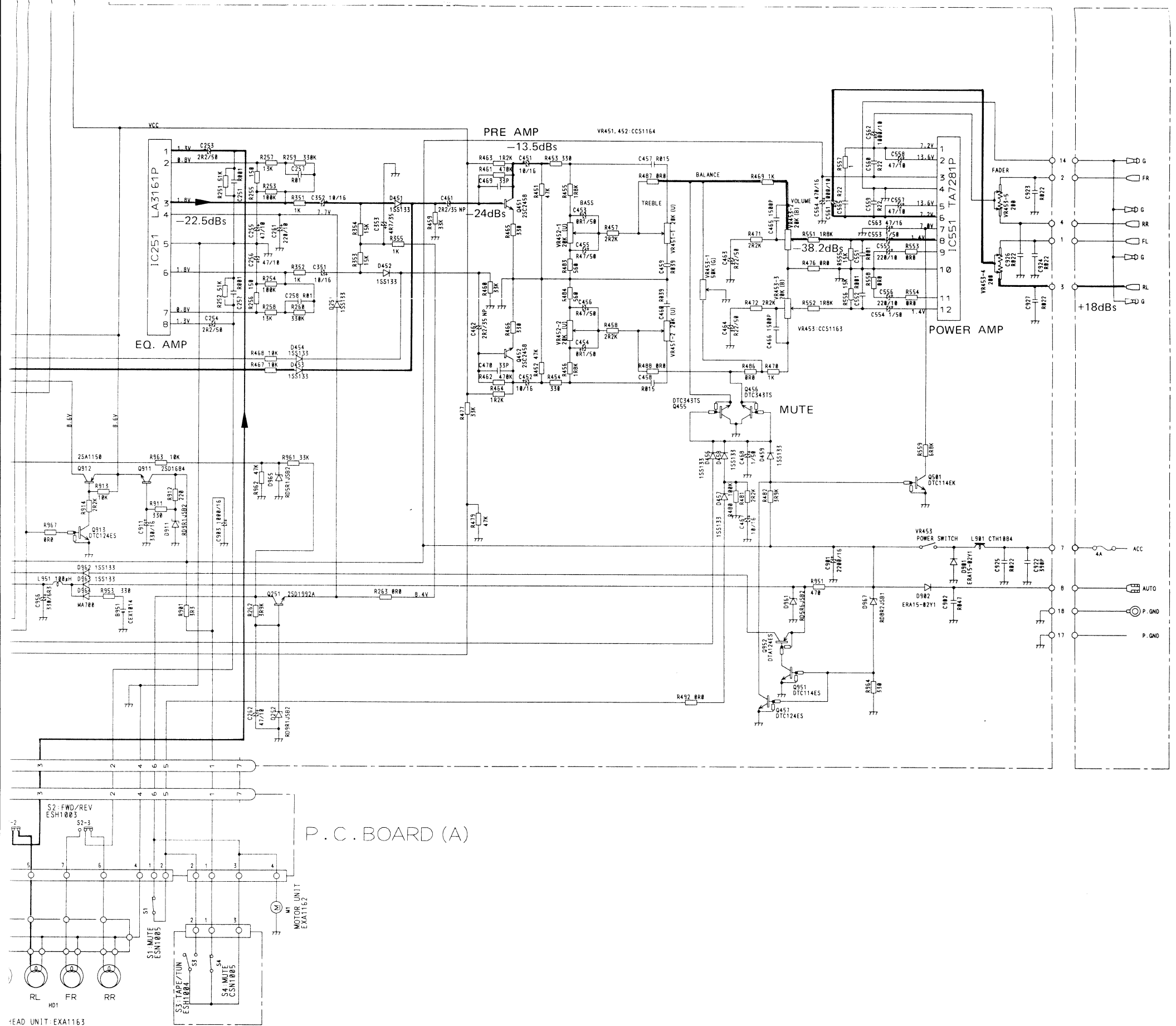
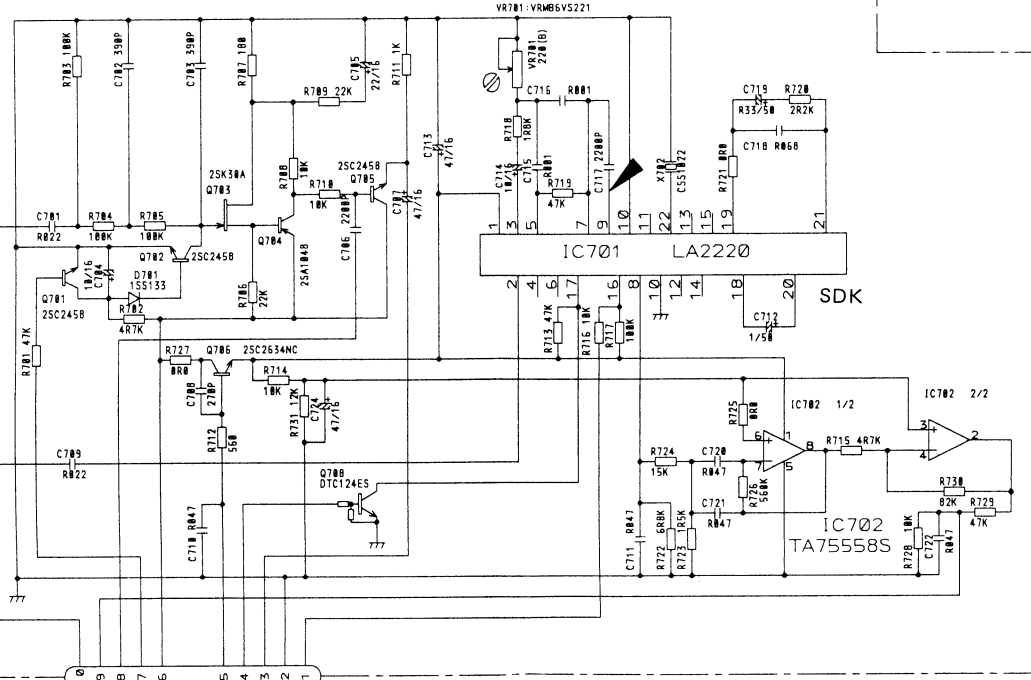


Fig. 14
39

SDK P.C. BOARD



TUNER AMP UNIT

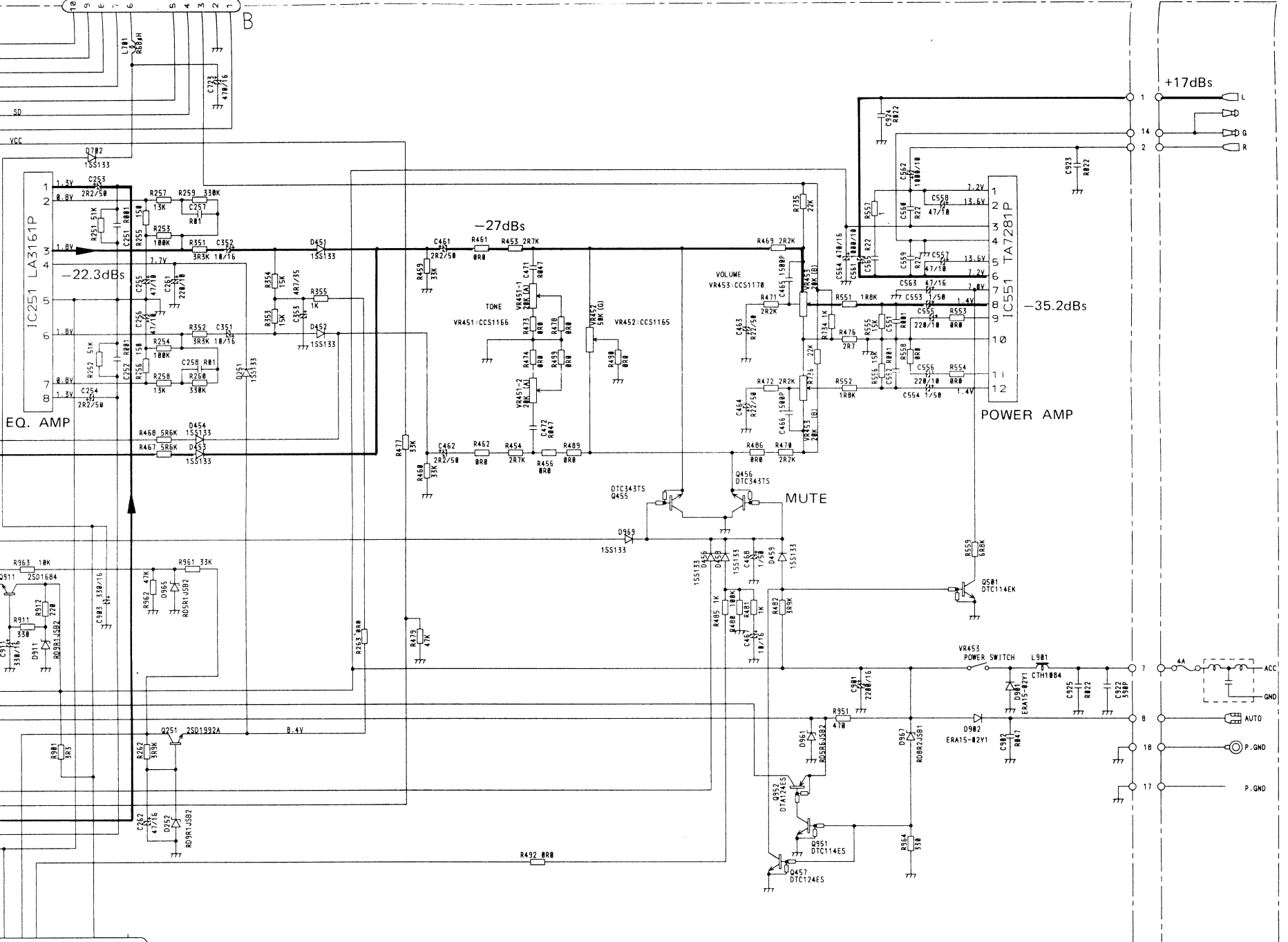
- Consists of
- SDK P.C. BOARD
- TUNER AMP P.C. BOARD

NOTE :

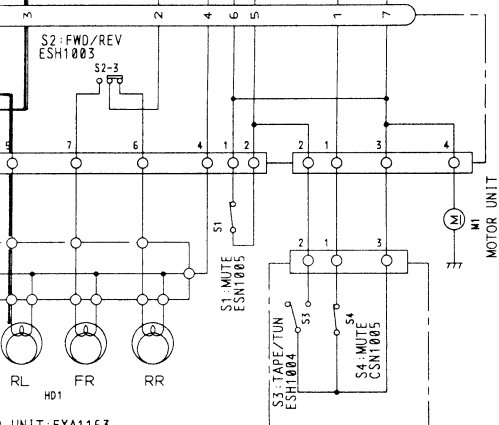
- Symbol indicates a resistor. No differentiation is made between chip resistors and discrete resistors.
- Symbol indicates a capacitor. No differentiation is made between chip capacitors and discrete capacitors.

Decimal points for resistor and capacitor fixed values are expressed as:
2.2→R22
0.022→R022

TUNER AMP P.C. BOARD

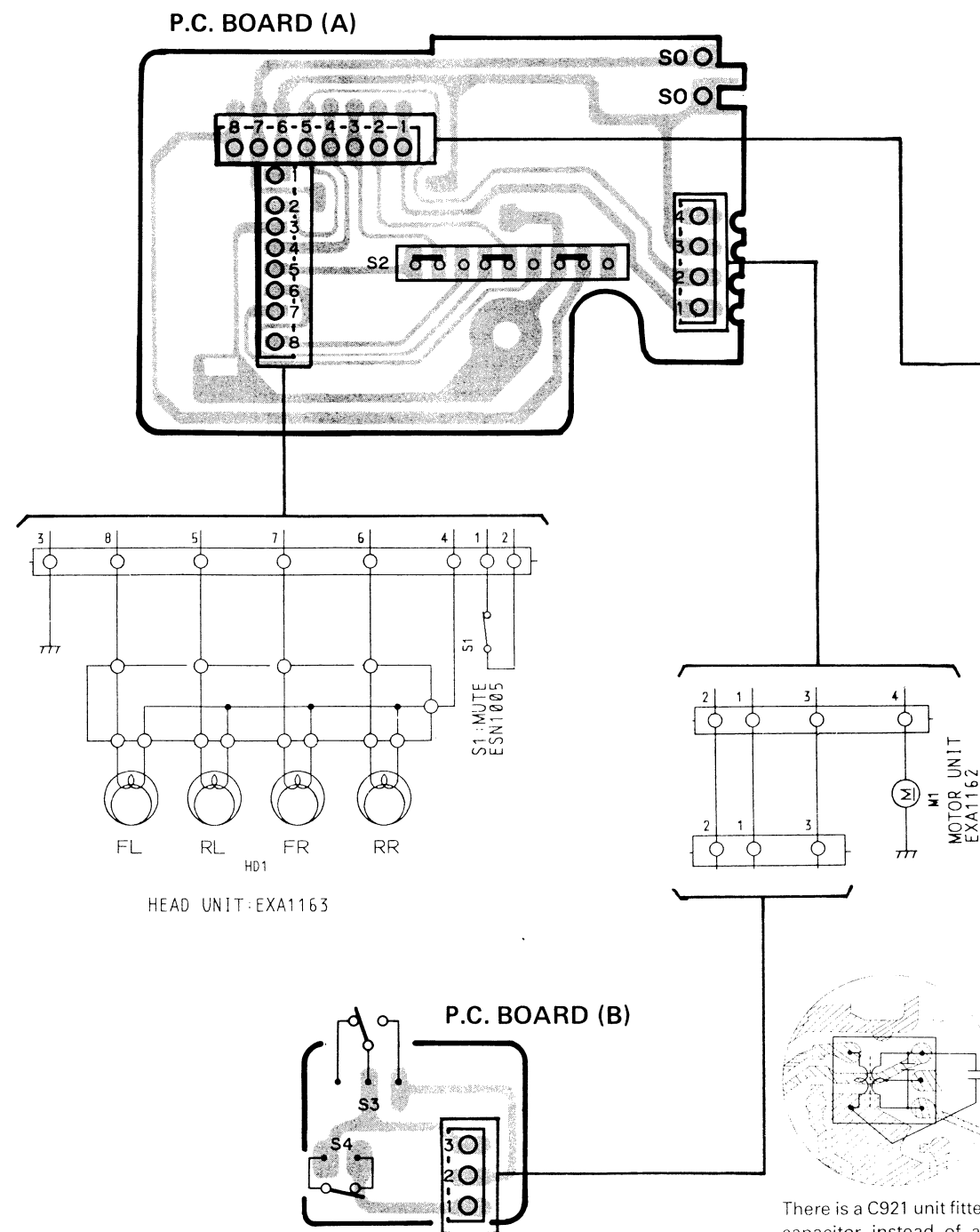


P.C. BOARD (A)



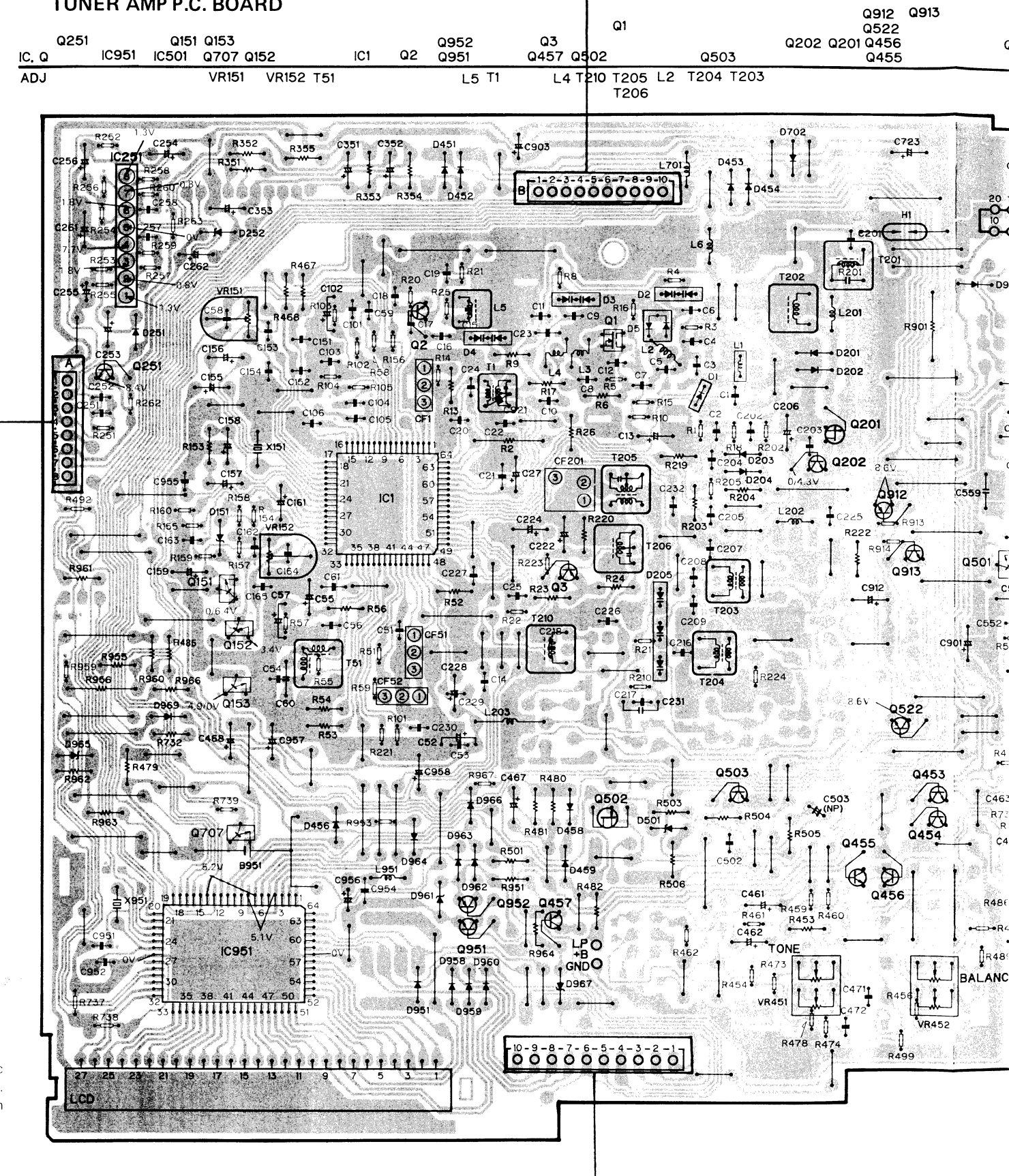
6

D



There is a C921 unit fitted with a ceramic capacitor instead of a chip capacitor. Both units are interchangeable with each other.

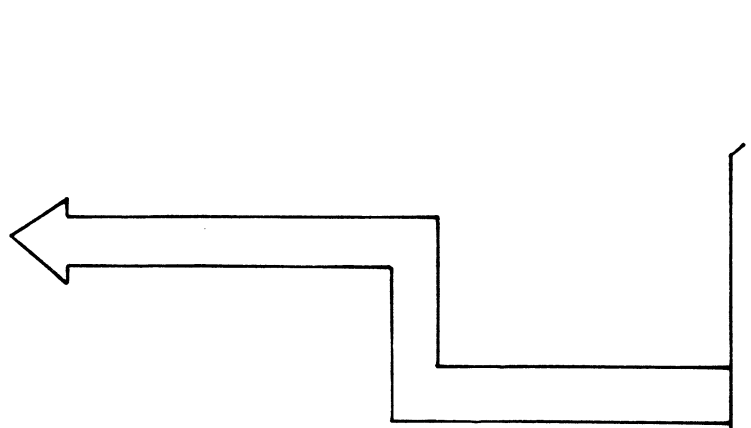
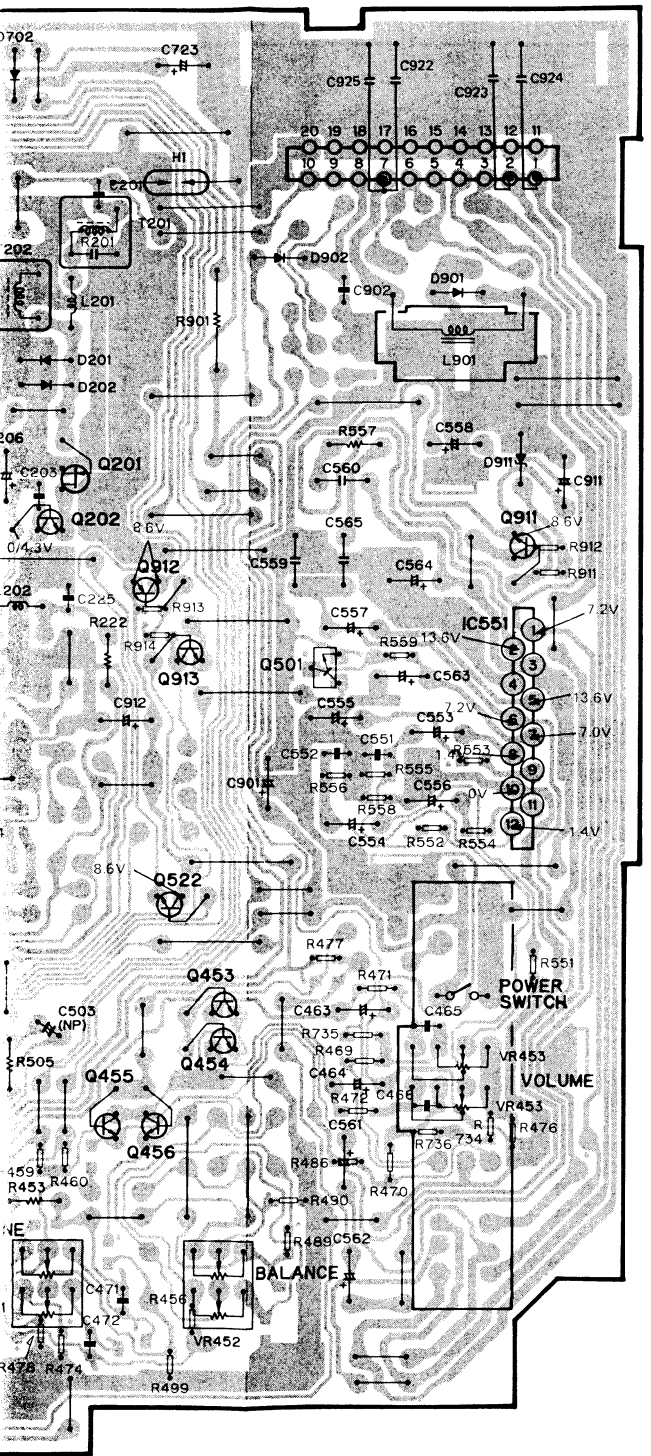
TUNER AMP P.C. BOARD



Q912 Q913
Q522
Q202 Q201 Q456
Q455

Q501

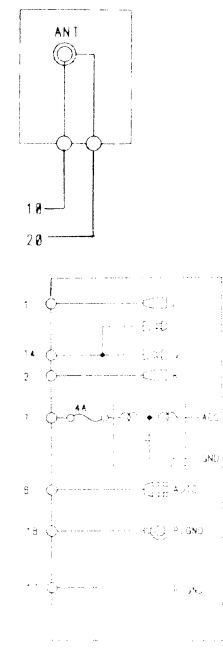
Q911
IC551



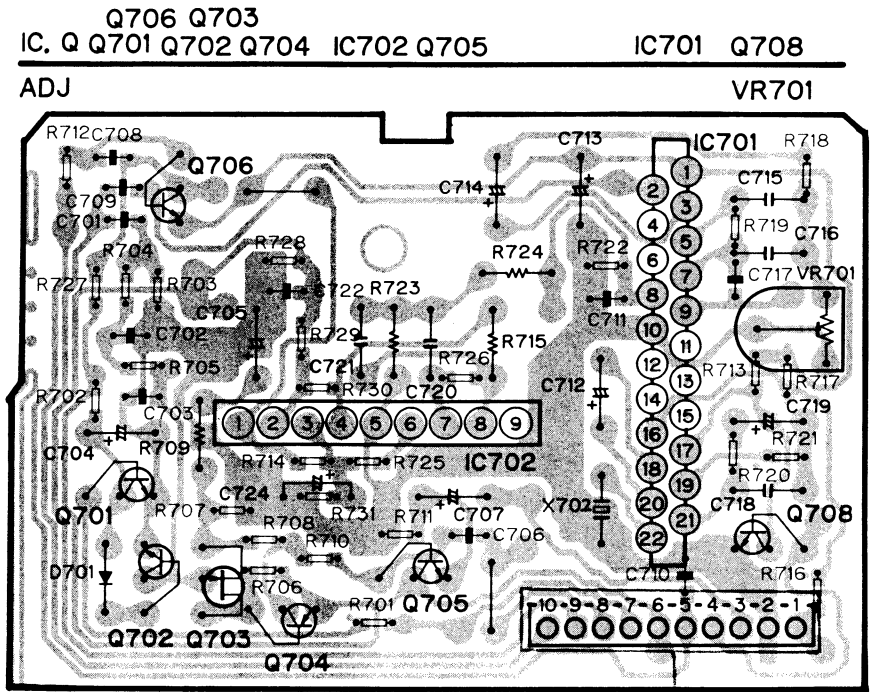
TUNER AMP P.C. BOARD: IC1

1	2	3	4	5	6	7	8	9	10
2.1V	0V				5.2V		2.9V		
11	12	13	14	15	16	17	18	19	20
4.8V	4.8V	4.8V	2.8V	0V	2.3V	2.3V	4.7V		3.5V
21	22	23	24	25	26	27	28	29	30
3.5V	3.5V	3.8V	3.5V	3.5V	4.8V		0/4.1V	0/3.5V	0V
31	32	33	34	35	36	37	38	39	40
0/6.4V	3.4V								
41	42	43	44	45	46	47	48	49	50
1.3V			2.4/0V		3.3/0V	4/5.2V	3.4/3.8V	8.7V	
51	52	53	54	55	56	57	58	59	60
0.2V	0/6.9V	4.9/0V	8.7V	0/2.2V	0/4.3V		3.4/0V	8.6/0V	8.6/0V
61	62	63	64						
8.6/0V	8.6/0V								

FM/MW



SDK P.C. BOARD



KEYBOARD UNIT

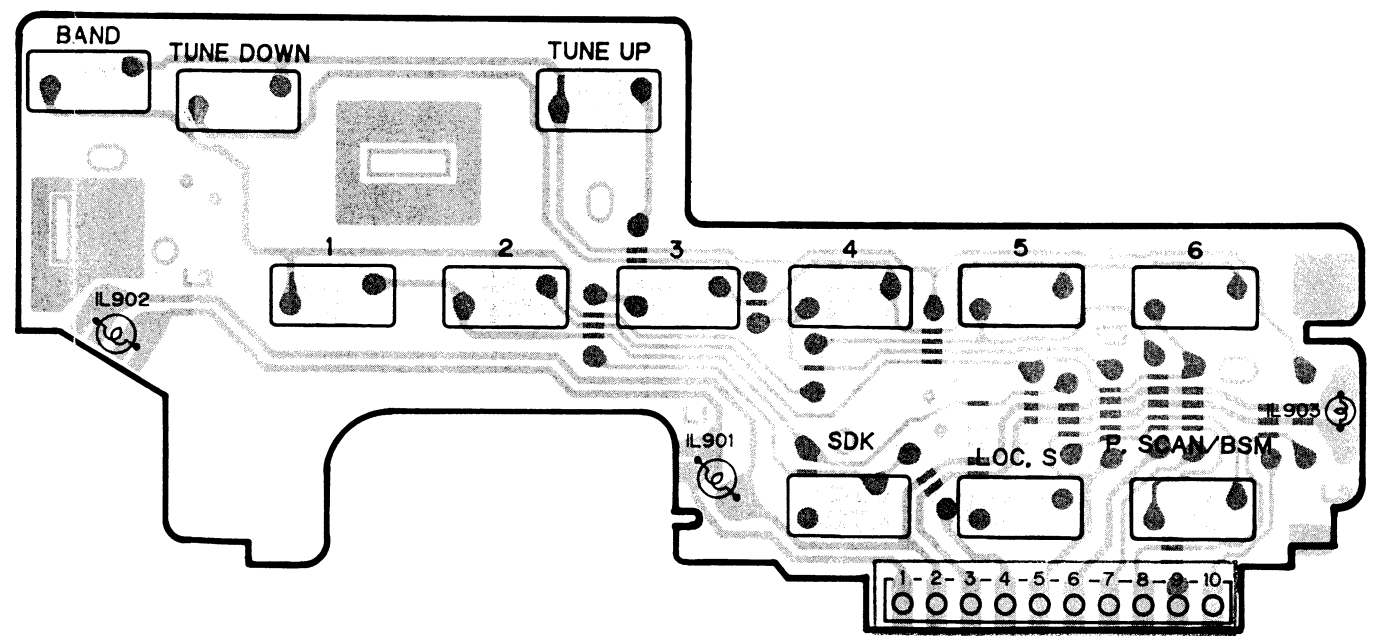


Fig. 16

16. CONNECTION DIAGRAM (KE-1730B)

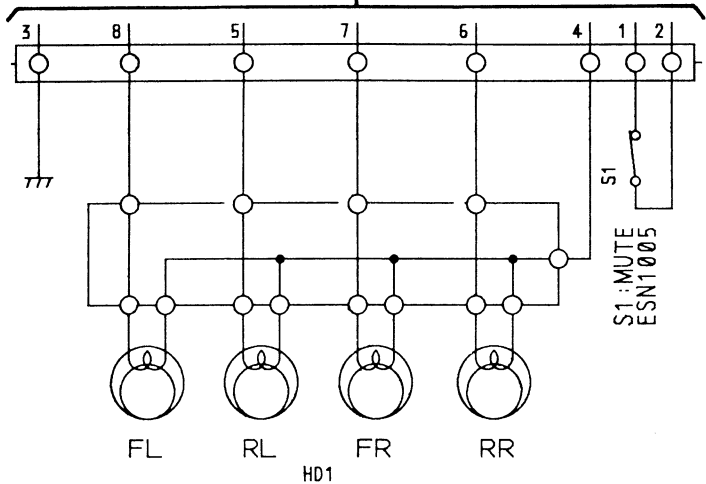
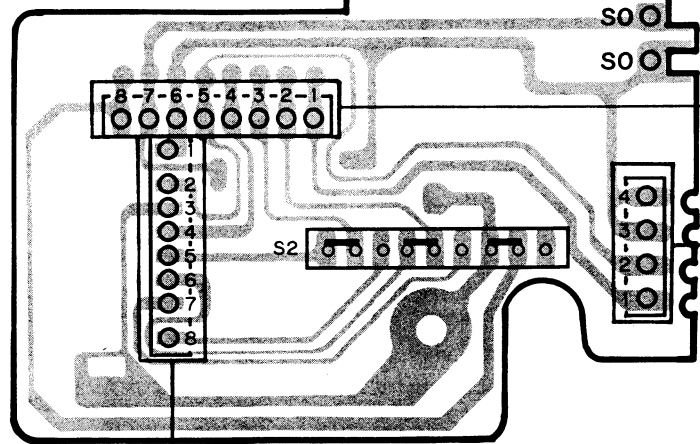
A

B

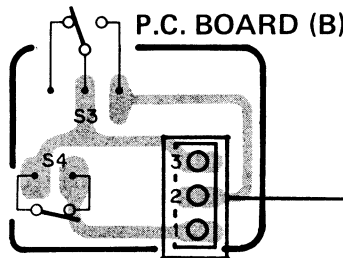
C

D

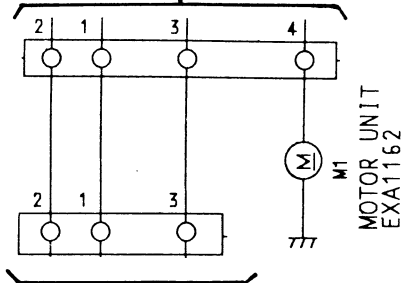
P.C. BOARD (A)



HEAD UNIT: EXA1163



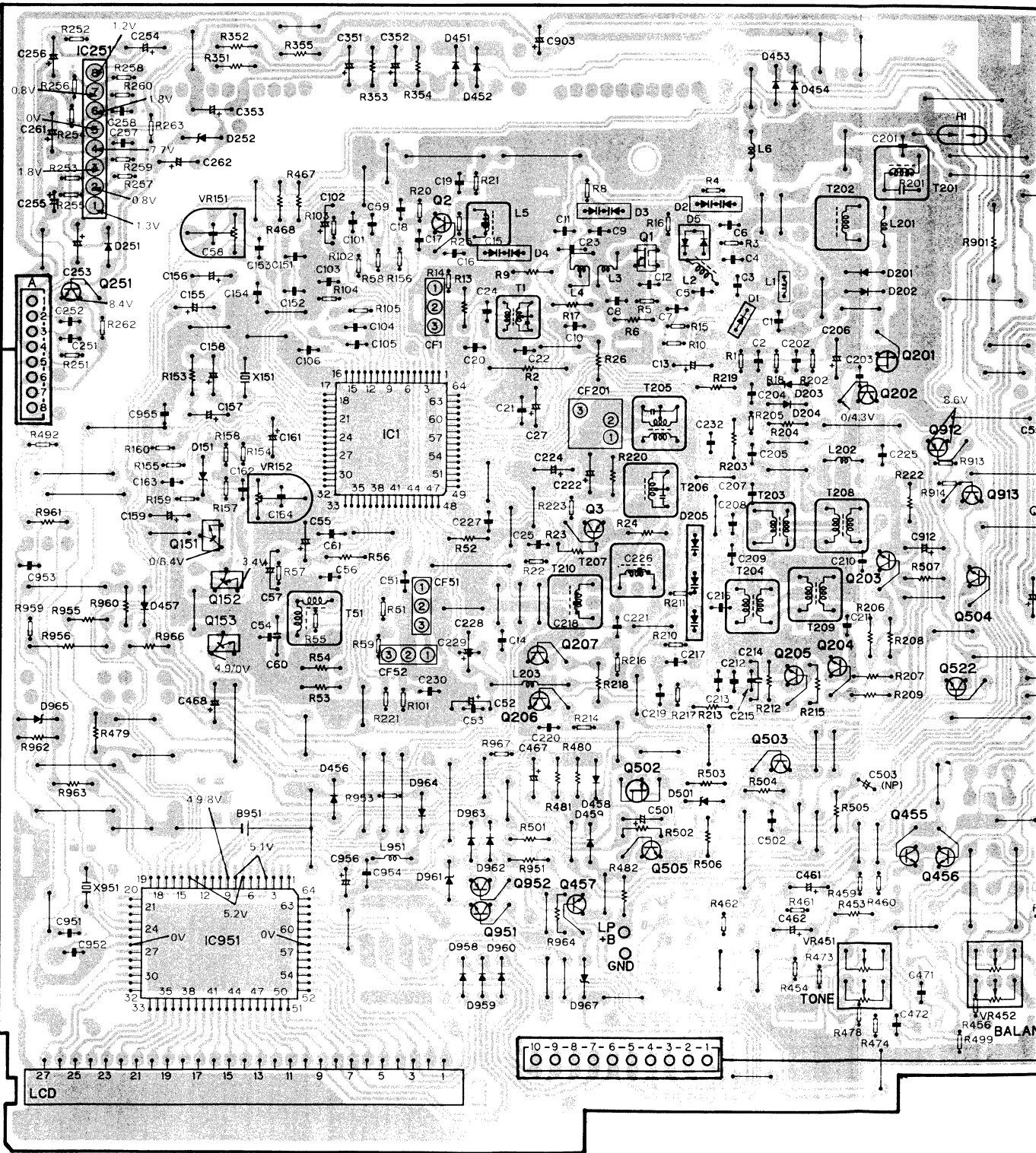
P.C. BOARD (B)



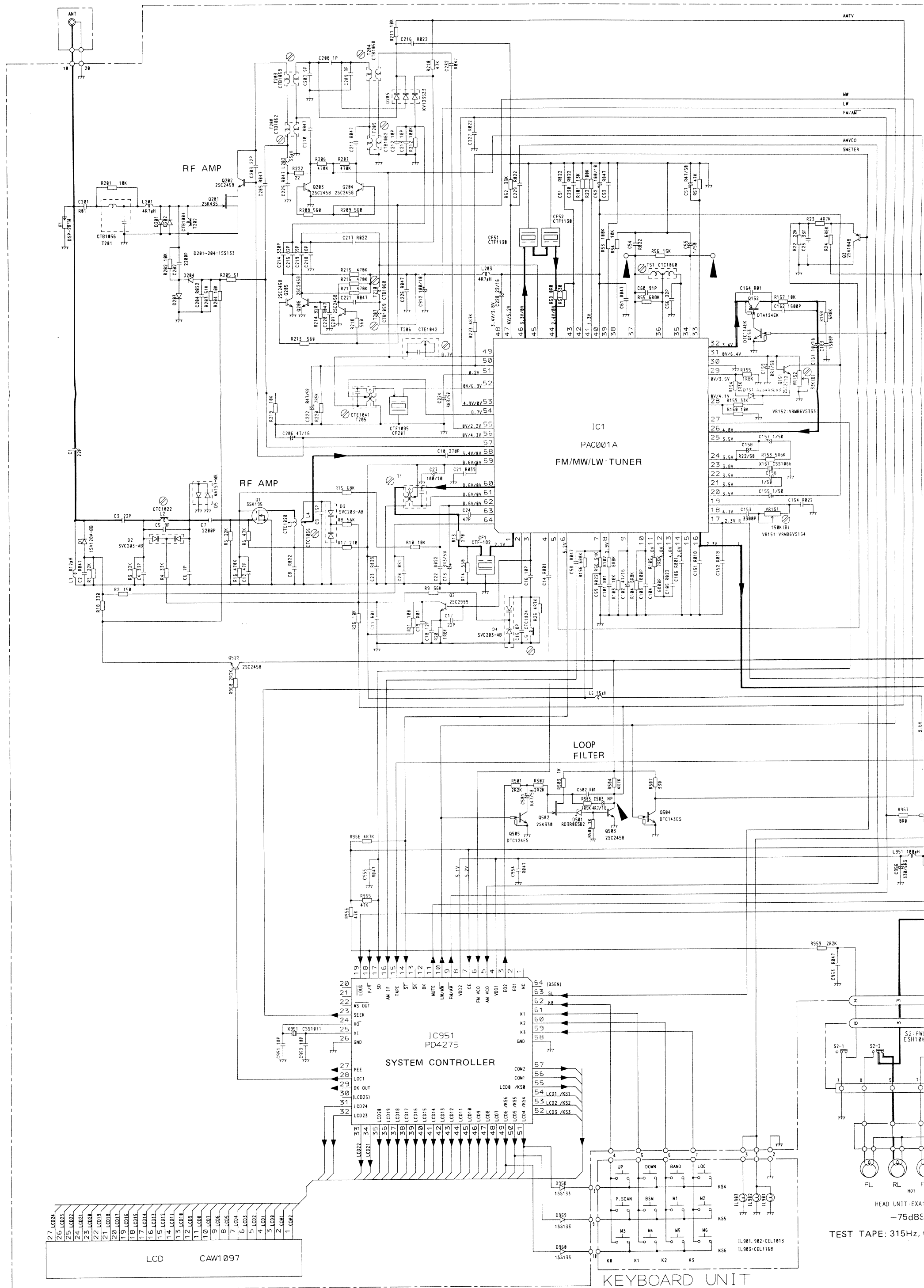
MOTOR UNIT
EXA1162

TUNER AMP UNIT

IC, Q	Q251	IC951	Q151	Q153	Q152	IC1	Q2	Q951	Q952	Q206	Q457	Q502	Q207	Q3	Q505	Q4	Q204	Q205	Q202	Q203	Q455	Q522	Q912	Q913
ADJ			VR151	VR152	T51				T1	L5	L4	T210	T205	T207	T206		L2	T204	T203	T208	T209			



17. SCHEMATIC CIRCUIT DIAGRAM (KE-1730B)



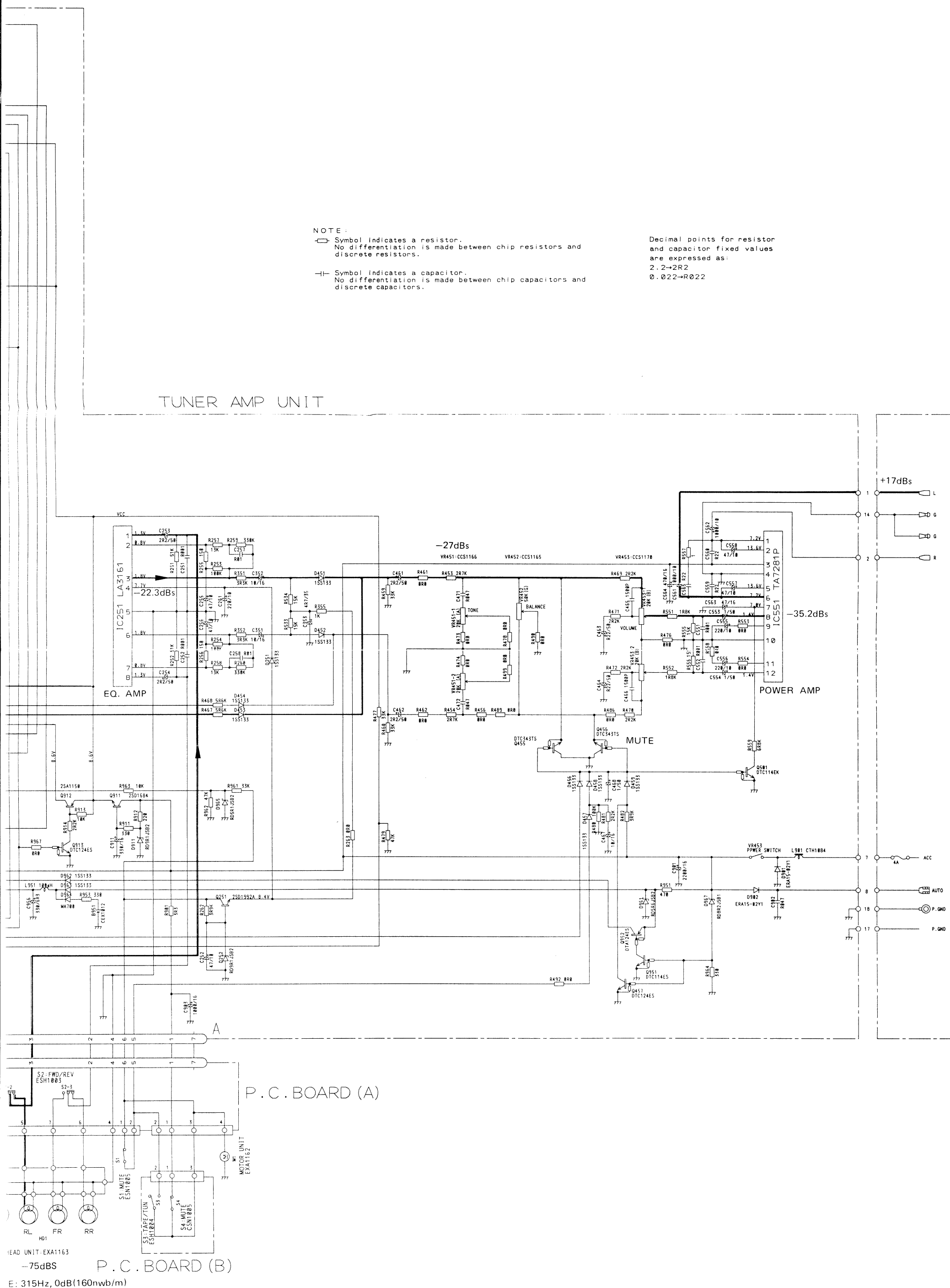
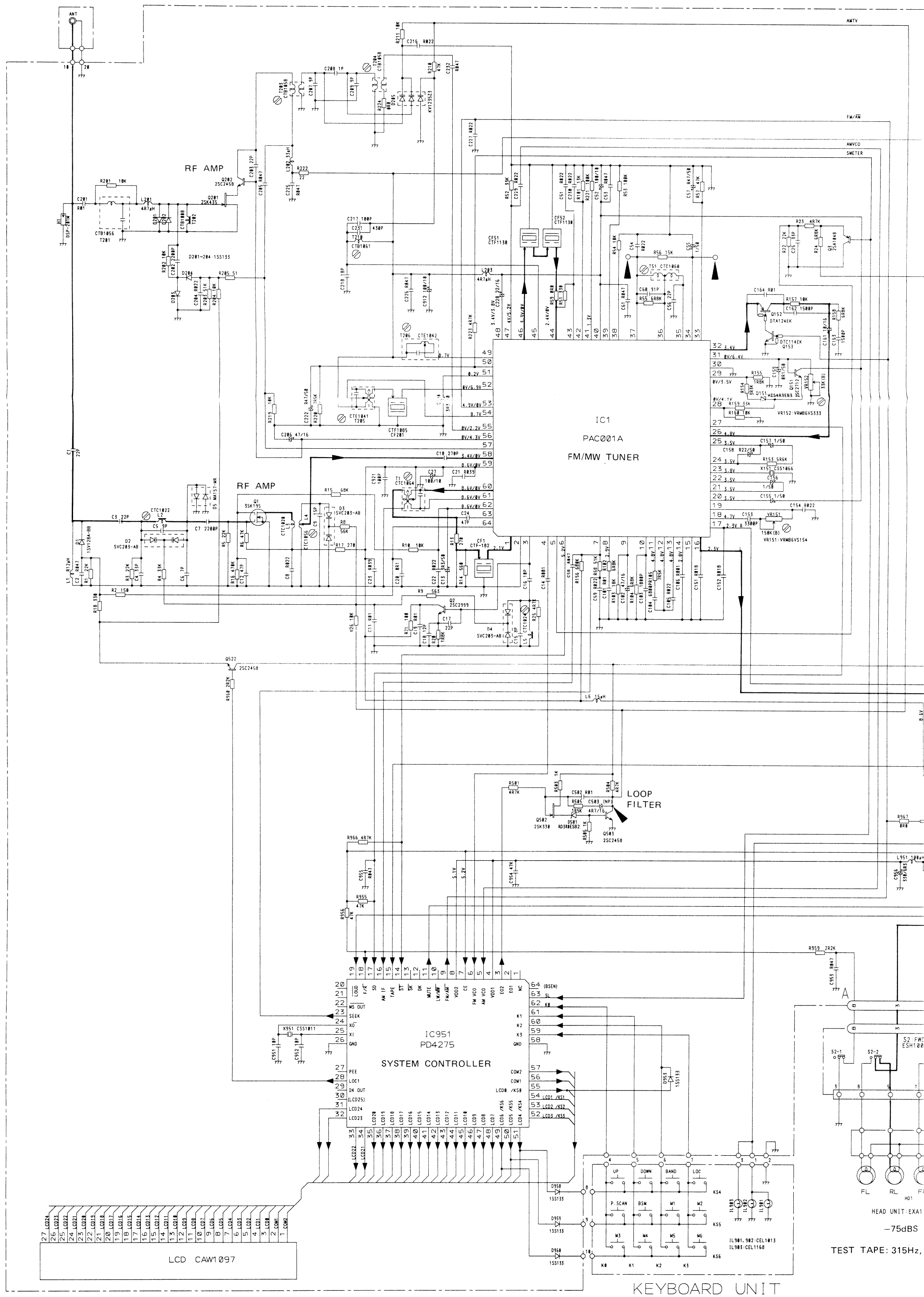



Fig. 18

18. SCHEMATIC CIRCUIT DIAGRAM (KE-1700B)



NOTE :

NOTE:
 Symbol indicates a resistor.
 No differentiation is made between chip resistors and discrete resistors.

—|— Symbol indicates a capacitor.
No differentiation is made between chip capacitors and discrete capacitors.

Decimal points for resistor and capacitor fixed values are expressed as:

$$0.022 \rightarrow R022$$

TUNER AMP UNIT

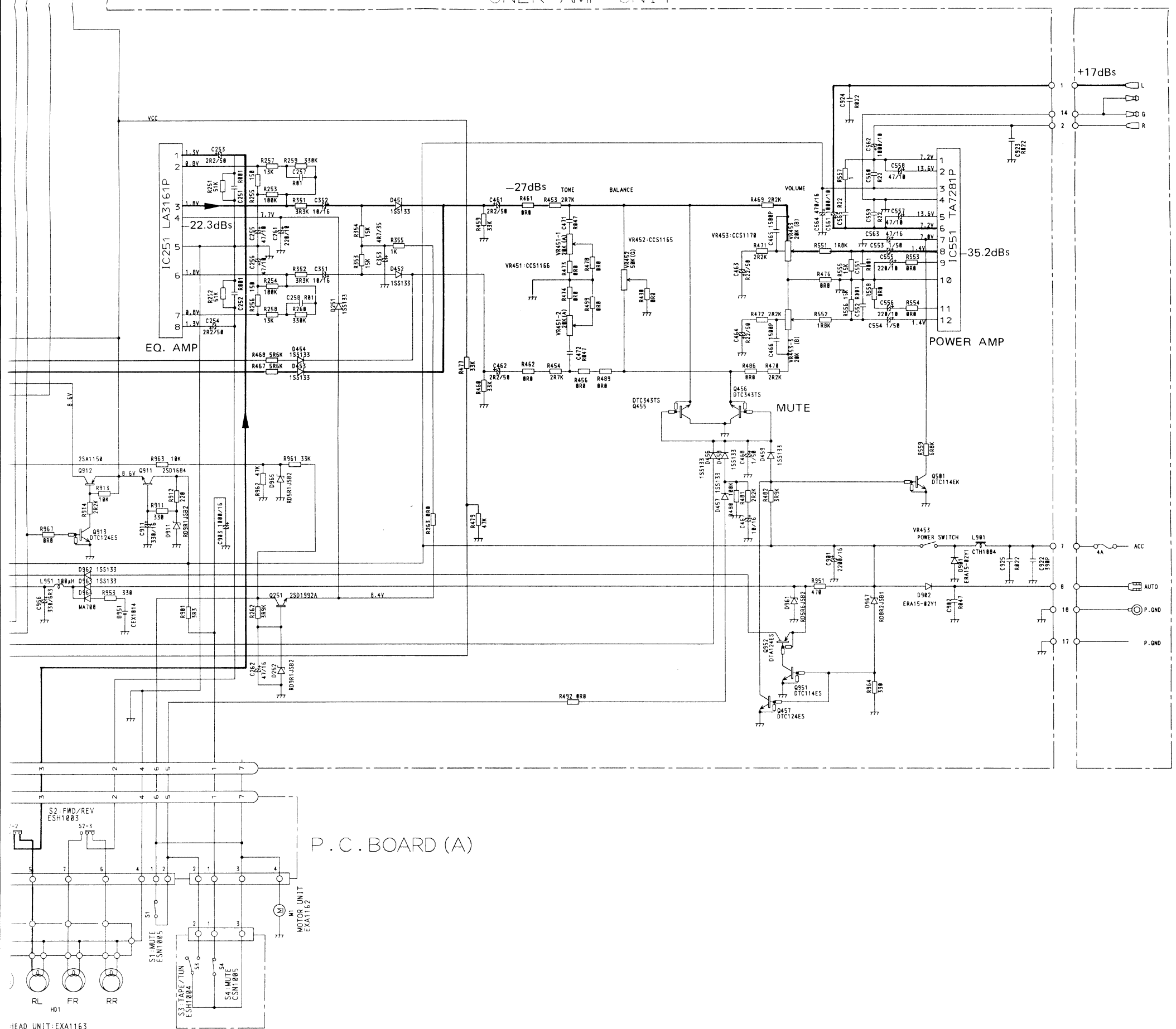
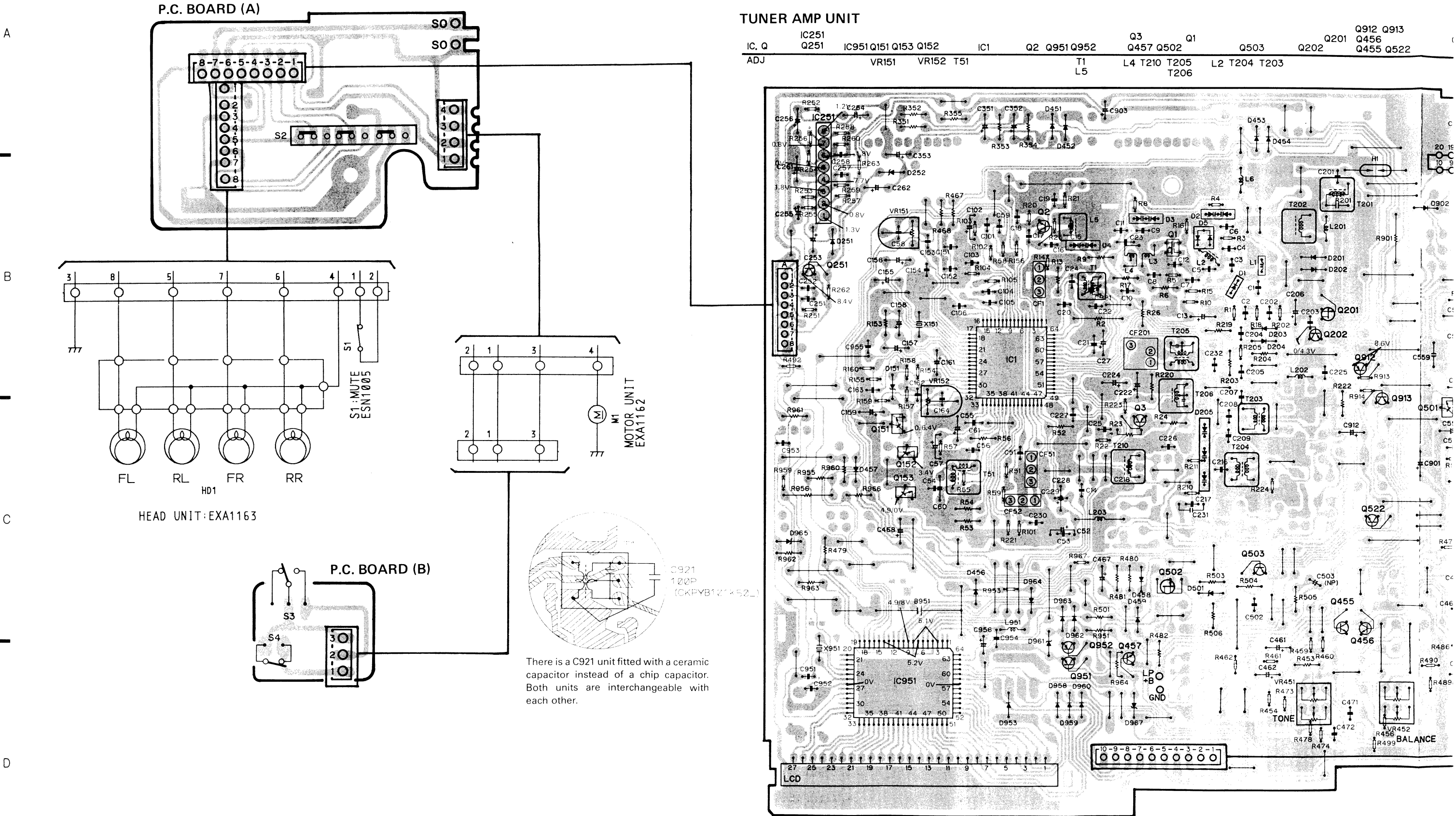
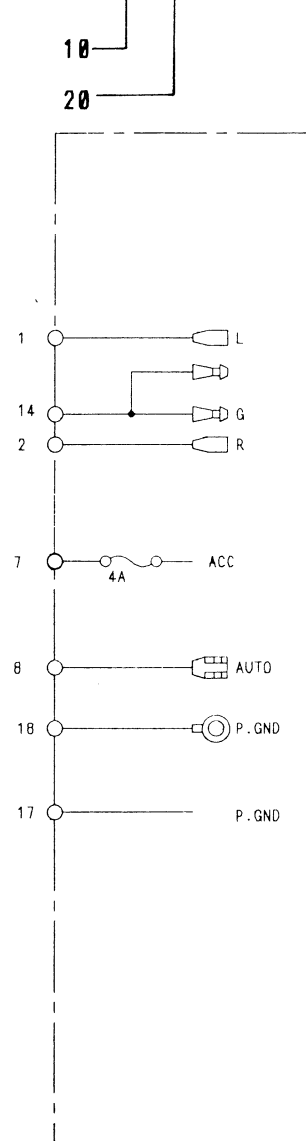
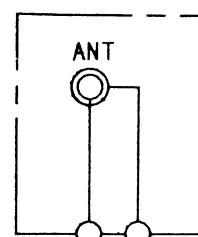
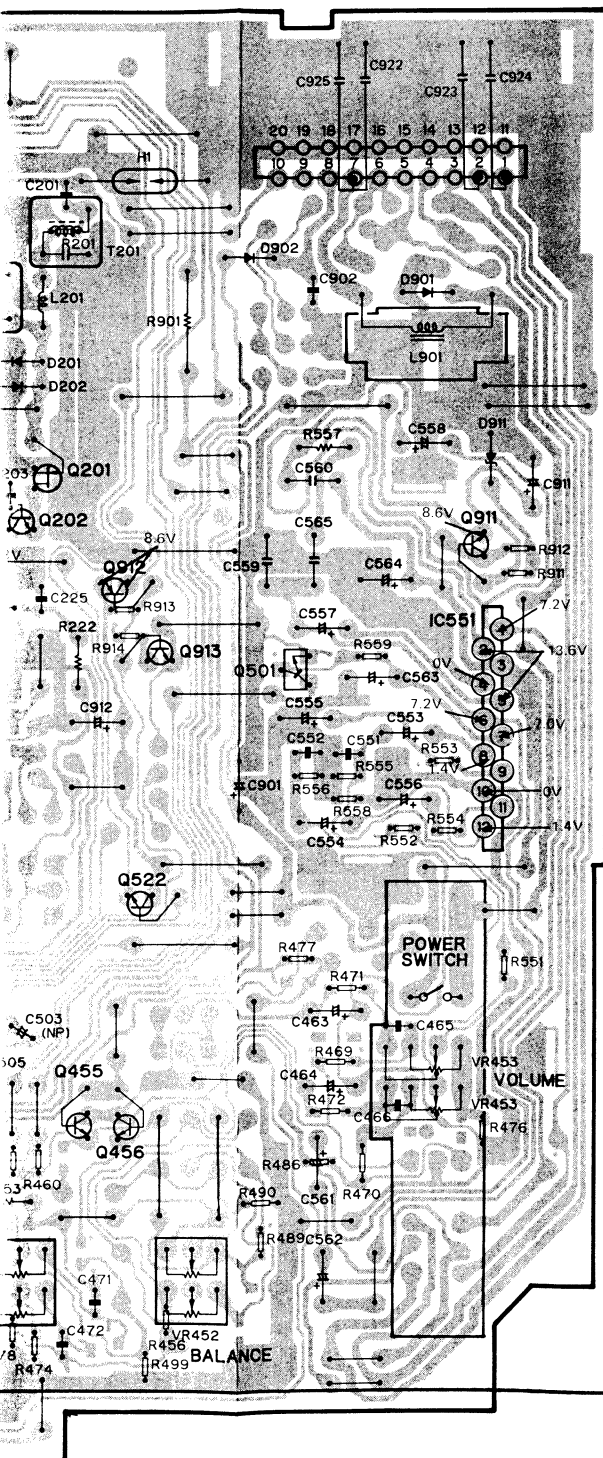


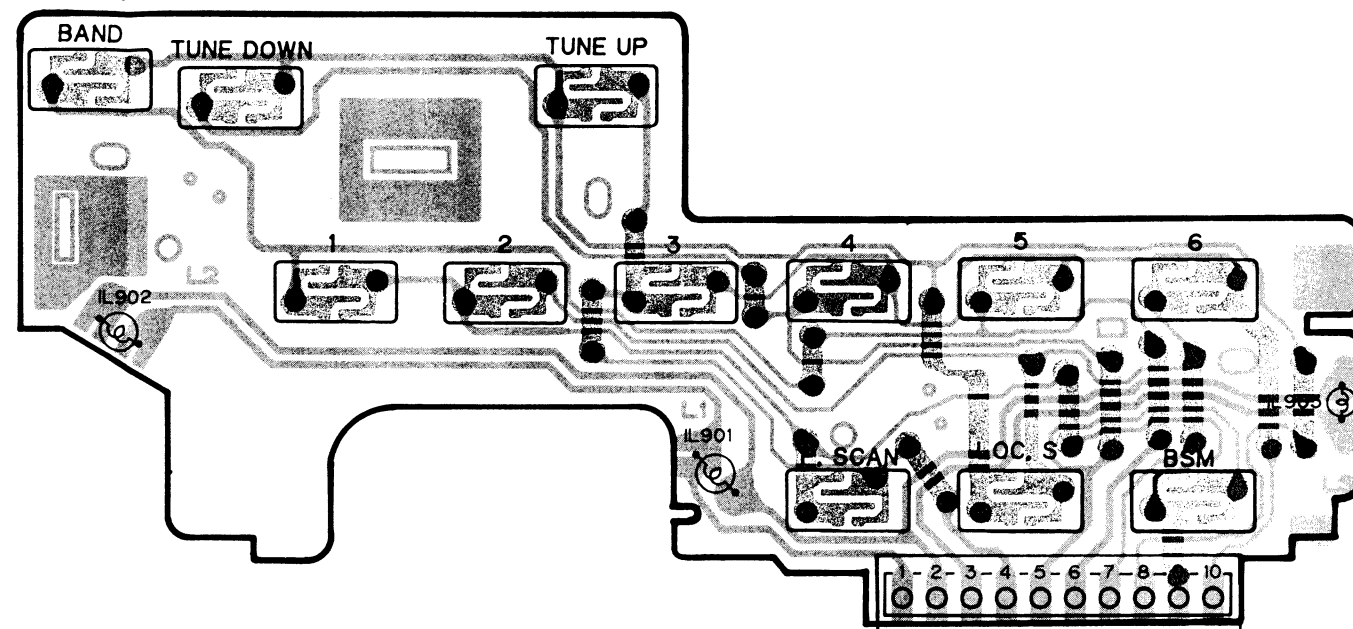
Fig. 19

19. CONNECTION DIAGRAM (KE-1700B)





KEYBOARD UNIT



TUNER AMP UNIT: IC1

1	2	3	4	5	6	7	8	9	10
2.1V	0V				5.2V		2.9V		
11	12	13	14	15	16	17	18	19	20
4.8V	4.8V	4.8V	2.8V	0V	2.3V	2.3V	4.7V		3.5V
21	22	23	24	25	26	27	28	29	30
3.5V	3.5V	3.8V	3.5V	3.5V	4.8V		0/4.1V	0/3.5V	0V
31	32	33	34	35	36	37	38	39	40
0/6.4V	3.4V								
41	42	43	44	45	46	47	48	49	50
1.3V			2.4/0V		3.3/0V	4/5.2V	3.4/3.8V	8.7V	
51	52	53	54	55	56	57	58	59	60
0.2V	0/6.9V	4.9/0V	8.7V	0/2.2V	0/4.3V		3.4/0V	8.6/0V	8.6/0V
61	62	63	64						
8.6/0V	8.6/0V								

FM/MW

Fig. 20

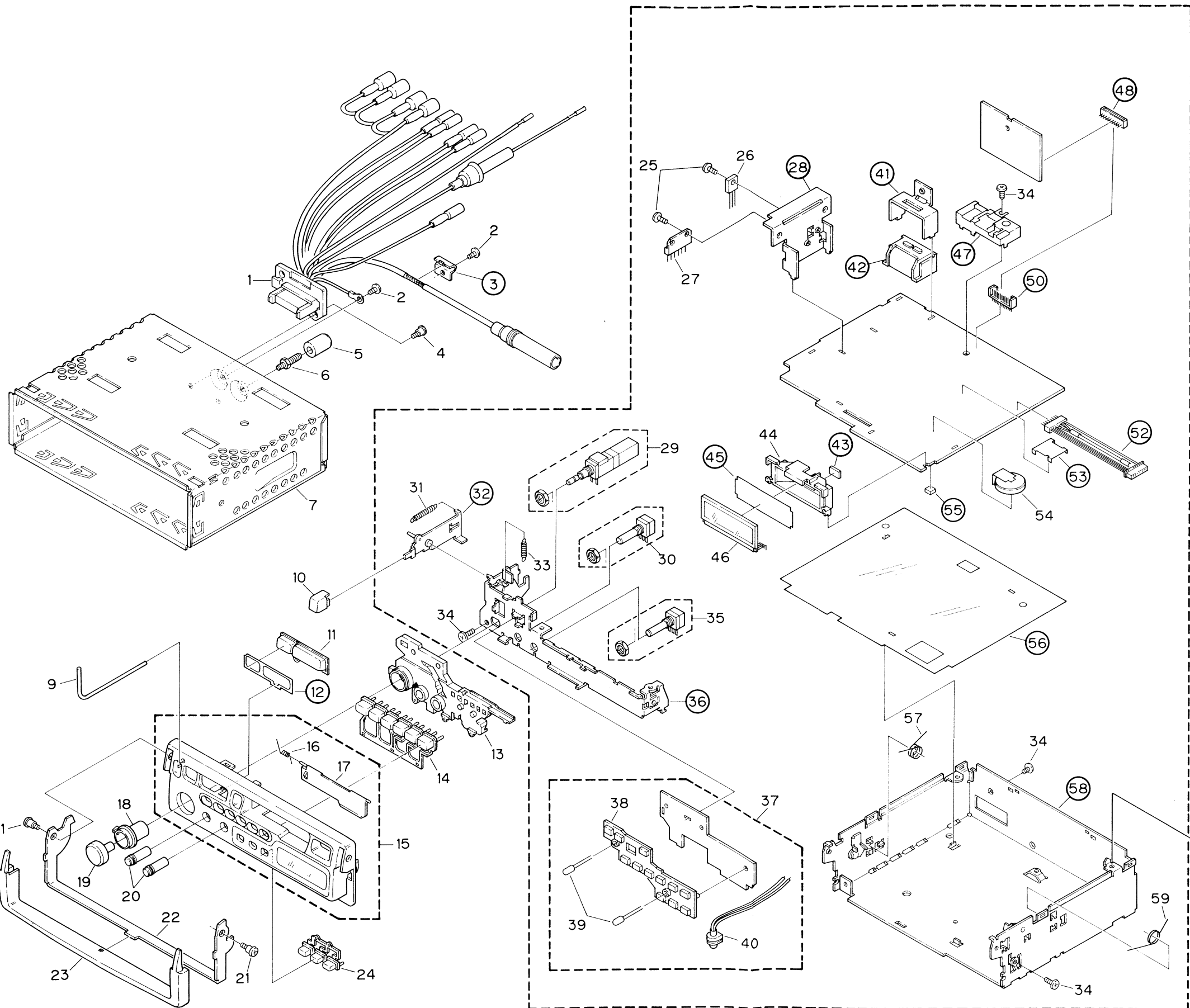
20. EXPLODED VIEW

A

B

C

D



A

B

C

D

NOTE:
• Parts wh
• Parts ma
longer th

• Parts Li

Mark No.

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35

Fig. 21

NOTE:

- Parts whose parts numbers are omitted are subject to being not supplied.
- Parts marked by "●" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.

● Parts List (KE-2700SDK/WG)

Mark No.	Description	Part No.	Mark No.	Description	Part No.
1	Cord Assy	CDE3289	36	Holder Unit	
2	Screw	BSZ30P060FMC	● 37	Key Board Unit	CWM2370
3	Clamper		38	Switch	CNV2519
4	Screw	CBA1073	39	Lamp	CEL1013
5	Bush	CNV1009	40	Lamp	CEL1168
6	Screw	CBA1002	41	Holder	
7	Box	CNB1358	42	Connector	
8	.....		43	Spacer	
9	Shaft	CLP1064	44	Holder	CNV2521
10	Button (QR EJECT)	CAC2548	45	Plate	
11	Button (BAND/TUNE)	CAC2544	46	LCD	CAW1097
12	Spacer		47	Case	
13	Lens	CNV2518	48	Connector	
14	Button (1-6)	CAC2670	49	.....
15	Grille Unit	CXA3760	50	Plug	
16	Spring	CBH1397	51	.....
17	Door	CAT1307	52	Connector	
18	Knob (FADER)	CAA1233	53	Shield	
19	Knob (VOLUME)	CAA1234	54	Battery	CEX1014
20	Knob (BASS/TREBLE)	CAA1235	55	Cushion	
21	Screw	CBA1165	56	Insulator	
22	Handle	CNC3262	57	Spring	CBH1374
23	Cover	CNV2520	58	Chassis Unit	
24	Button	CAC2671	59	Spring	CBH1366
25	Screw	BSZ30P080FMC	● 60	Tuner Amp Assy	CWM2463
26	Transistor	2SD1684	61	Case	
27	IC	TA7281P	● 62	Cassette Mechanism Assy	EXK1710
28	Heat Sink		63	Button (EJECT)	CAC2545
29	Volume (VOLUME)	CCS1163	64	Button (REW)	CAC2547
30	Volume (BASS)	CCS1164			
31	Spring	CBH1347	65	Button (FF)	CAC2546
32	Lever Unit		66	Bracket	
33	Spring	CBH-846	67	Screw	BMZ26P040FMC
34	Screw	BSZ30P055FZK	68	Bracket	
35	Volume (TREBLE)	CCS1164	69	Clamper	CEF-007

NSP:Non Spare Part

Mark No.	Description	KE-2700SDK /WG Part No.	KE-2730B /EW Part No.	KE-2700B /IT Part No.	KE-1700SDK /WG Part No.	KE-1730B /EW Part No.	KE-1700B /IT Part No.
	1 Cord Assy	CDE3289	CDE2975	CDE2975	CDE3290	CDE2978	CDE2978
	15 Grille Unit	CXA3760	CXA3758	CXA3759	CXA3766	CXA3764	CXA3765
	18 Knob (FADER)	CAA1233	CAA1233	CAA1233	.....	.....	.....
	29 Volume (VOLUME)	CCS1163	CCS1163	CCS1163	CCS1170	CCS1170	CCS1170
	30 Volume (BASS)	CCS1164	CCS1164	CCS1164	CCS1165	CCS1165	CCS1165
	35 Volume (TREBLE)	CCS1164	CCS1164	CCS1164	CCS1166	CCS1166	CCS1166
●	37 Key Board Unit	CWM2370	CWM2370	CWM2480	CWM2370	CWM2370	CWM2480
	39 Lamp	CEL1013	CEL1013	CEL-147	CEL1013	CEL1013	CEL-147
	40 Lamp	CEL1168	CEL1168	CEL1167	CEL1168	CEL1168	CEL1167
	48 Connector	NSP (A)	.....	.....	NSP (A)	.....	.....
	50 Plug	NSP (A)	.....	.....	NSP (A)	.....	.....
	54 Battery	CEX1014	CEX1014	CEX1014	CEX1012	CEX1012	CEX1012
	58 Chassis Unit	NSP (A)	NSP (B)	NSP (B)	NSP (C)	NSP (B)	NSP (B)
●	60 Tuner Amp Assy	CWM2463	CWM2475	CWM2460	CWM2484	CWM2478	CWM2481
	61 Case	NSP (A)	NSP (B)	NSP (A)	NSP (A)	NSP (B)	NSP (A)

21. PACKING METHOD

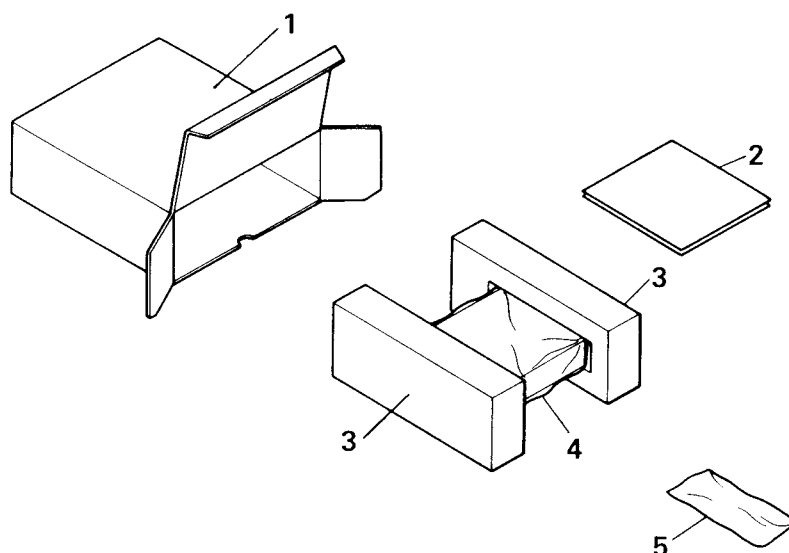


Fig. 22

● Parts List

Mark No.	Description	KE-2700SDK /WG	KE-2730B /EW	KE-2700B /IT	KE-1700SDK /WG	KE-1730B /EW	KE-1700B /IT
		Part No.	Part No.	Part No.	Part No.	Part No.	Part No.
1	Carton	CHG1857	CHG1856	CHG1858	CHG1861	CHG1860	CHG1862
* 2-1	Owner's Manual	CRD1400	CRD1398	CRD1399	CRD1400	CRD1398	CRD1399
2-2	Card		.....	.....		.....	.....
2-3	Caution Card		.....	.....		.....	.....
2-4	Passport		.....	.....		.....	.....
2-5	Caution Card		.....	.....		.....	.....
3	Styrofoam	CHP1355	CHP1355	CHP1355	CHP1355	CHP1355	CHP1355
4	Polyethylene Bag	CEG-162	CEG-162	CEG-162	CEG-162	CEG-162	CEG-162
* 5	Accessory Assy	CEA1584	CEA1584	CEA1584	CEA1584	CEA1584	CEA1584

* 5 Accessory Assy CEA1584		
Mark No.	Description	Part No.
5-1	Screw (× 1)	CBA-102
5-2	Screw (× 1)	CBA1002
5-3	Strap	CNF-111
5-4	Bush	CNV1009
5-5	Nut (× 2)	NF50FMC
5-6	Shaft	CLP1064

* 2-1 Owner's Manual

Part No.	Model	Language
CRD1400	KE-2700SDK/WG KE-1700SDK/WG	German, French
CRD1398	KE-2730B/EW KE-1730B/EW	English, French, German, Norwegian, Dutch
CRD1399	KE-2700B/IT KE-1700B/IT	English, Spanish, Italian, Finnish, Swedish, Portuguese

22. CASSETTE MECHANISM EXPLODED VIEW

• Parts List

Mark No.	Description	Part No.	Mark No.	Description	Part No.
1	Reel Unit	EXA1167	46	Switch	ESH1004
2	Gear Unit	EXA1159	47	Switch	CSN1005
3	Washer	CBF1037	48	Screw	CBA1025
4	Gear	ENV1230	49	Gear	ENV1229
5	Gear	ENV1203	50	Washer	CBF1038
6	Gear	ENV1204	51	Belt	ENT1020
7	Gear	ENV1212	52	Gear	ENV1209
8	Gear	ENV1211	53	Arm Unit	EXA1155
9	Sub Chassis Unit		54	Washer	YE30FUC
10	Arm	ENV1210	55	Spring	EBH1310
11	Screw	BMZ20P025FMC	56	Flywheel Unit	EXA1161
12	Spring	EBH1304	57	Belt	ENT1018
13	Screw	JFZ20P040FNI	58	Arm	ENV1206
14	Collar	ELA1220	59	Spring	EBH1317
15	Shaft		60	Gear	ENV1205
16	Lever	ENC1202	61	Chassis Unit	
17	Washer	EBF1015	62	Screw	JFZ20P025FNI
18	Gear	ENV1268	63	.....
19	Spring	EBH1313	64	Pulley	ENV1207
20	Spring	EBH1314	65	.....
21	Lever	ENC1208	66	.....
22	Spring	EBH1307	67	Plug	
23	Tube		68	F. C. Board	
24	Spring	EBH1306	69	Switch	ESH1003
25	.....		70	Washer	WH23FMC
26	Lever	ENC1209	71	Screw	BSZ23P040FMC
27	Spring	EBH1316	72	Screw	CBA1015
28	Arm	ENC1222	73	Head Unit	EXA1163
29	Spring	EBH1308	74	P. C. Board	ENP1042
30	Washer	YE15FUC	75	Switch	ESN1005
31	Arm	ENC1221	76	Washer	YE20FUC
32	Spring	EBH1305	77	Pinch Roller Unit	EXA1154
33	Frame	ENC1204	78	.....
34	Arm	ENC1215	79	.....
35	Shaft	ELA1251	80	Arm	ENC1213
36	Holder	ENC1205	81	Screw	CBA1038
37	Spring	EBH1344	82	Arm	ENV1227
38	Lever	ENV1222	83	Spring	EBH1312
39	Head Base Unit	EXA1152	84	Arm	ENC1212
40	Tube		85	Spring	EBH1309
41	Spring	EBH1315	86	Lever	ENC1206
42	Motor Unit	EXA1162	87	Spring	EBH1309
43	Screw	PMS26P025FUC	88	Lever	ENC1207
44	Screw	CBA1054	89	.....
45	P. C. Board		90	Pinch Roller Unit	EXA1153

● Cassette Mechanism Assy

Mark No.	Description	Part No.
91	.....
92	Arm	ENC1220
93	Spring	EBH1311
94	Collar	ELA1229
95	Screw	JGZ17P035FNI
96	Collar	ELA1252

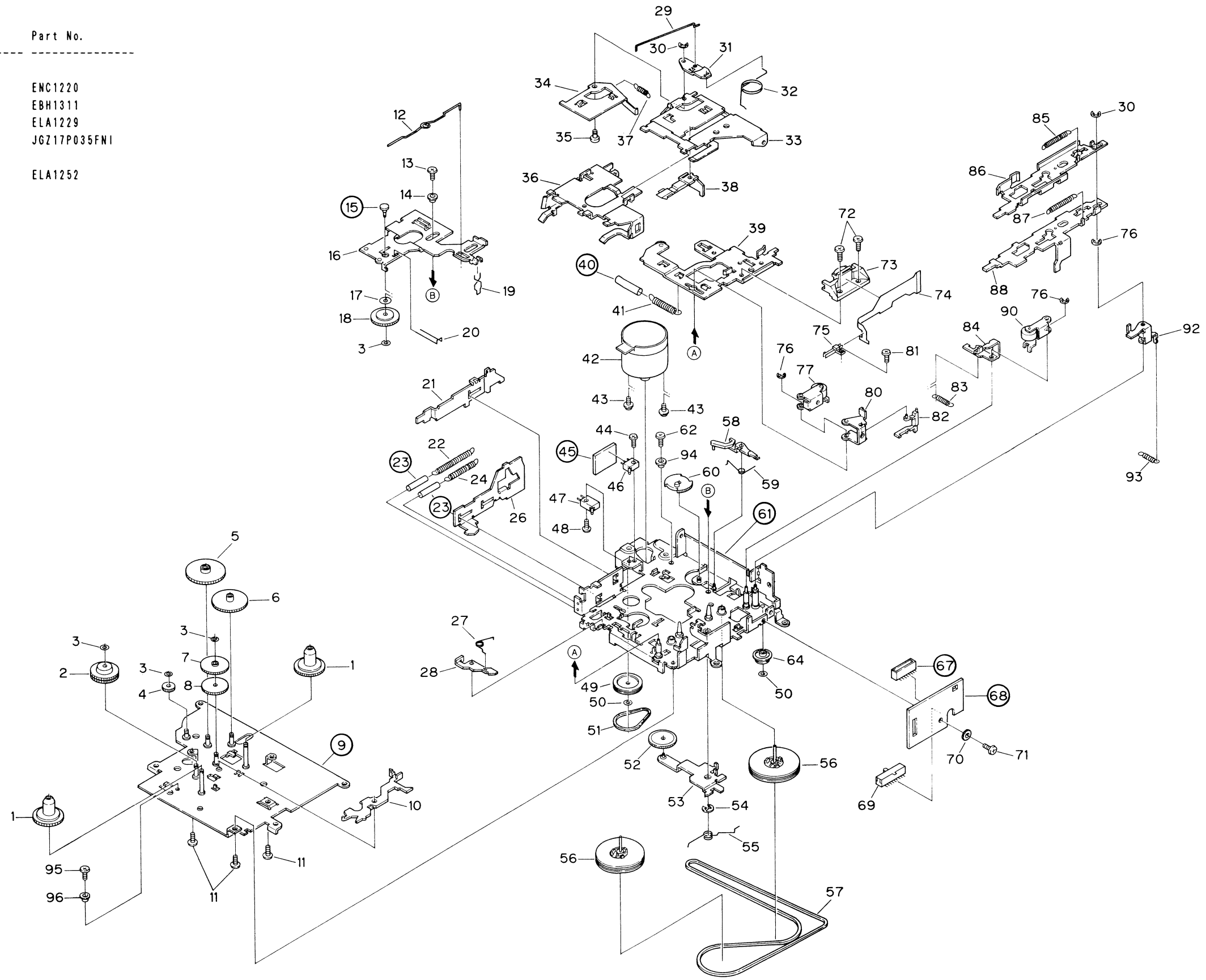


Fig. 23

23. ELECTRICAL PARTS LIST

NOTE:

- Parts whose parts numbers are omitted are subject to being not supplied.
- The part numbers shown below indicate chip components.

Chip Resistor

RS1/8S□□□J, RS1/10S□□□J

Chip Capacitor (except for CQS.....)

CKS....., CCS....., CSZS.....

Unit Number :
Unit Name : Keyboard Unit(KE-2700SDK, 1700SDK/WG, KE-2730B, 1730B/EW)

Mark	====	Circuit Symbol & No.	====	Part Name	Part No.
IL 901 902		Lamp 14V 40mA		CEL1013	
IL 903		Lamp 14V 40mA		CEL1168	

Unit Number :
Unit Name : Keyboard Unit(KE-2700B, 1700B/IT)

Mark	====	Circuit Symbol & No.	====	Part Name	Part No.
IL 901 902		Lamp 14V 40mA		CEL-147	
IL 903		Lamp 14V 40mA		CEL1167	

Unit Number :
Unit Name : P.C. Board (A)

Mark	====	Circuit Symbol & No.	====	Part Name	Part No.
S 2		Switch (FWD/REV)		ESH1003	

Unit Number :
Unit Name : P.C. Board (B)

Mark	====	Circuit Symbol & No.	====	Part Name	Part No.
S 3		Switch (TAPE/TUN)		ESH1004	
S 4		Switch (MUTE)		CSN1005	

Miscellaneous Parts List

Mark	====	Circuit Symbol & No.	====	Part Name	Part No.
S 1		Switch (MUTE)		ESN1005	
M 1		Motor Unit		EXA1162	
HD 1		Head Unit		EXA1163	

Tuner Amp Unit
Consists of
• SDK P.C. Board (KE-2700SDK, 1700SDK)
• Tuner Amp P.C. Board

Unit Number :
Unit Name : Tuner Amp Unit (KE-2700SDK/WG)

MISCELLANEOUS

Mark	====	Circuit Symbol & No.	====	Part Name	Part No.
IC 1				PAC001A	
IC 251				LA3161P	
IC 551				TA7281P	
IC 701				LA2220	
IC 702				TA7555BS	

Mark	====	Circuit Symbol & No.	====	Part Name	Part No.
T 201		Coil		CTB1056	
T 202		Coil		CTB1008	
T 203 204		Coil		CTB1058	
T 205		Coil		CTE1041	
T 206		Coil		CTE1042	
T 210		Coil		CTB1061	
CF 1		Ceramic Filter		CTF-182	
CF 51 52		Ceramic Filter		CTF1130	
CF 201		Filter		CTF1085	
H 1		Surge Protector		DSP-201M	

X 151		Ceramic Resonator		CSS1066	
X 702		Ceramic Resonator		CSS1022	
X 951		Crystal Resonator		CSS1011	
VR 151		Semi-fixed 150kΩ (B)		VRMB6VS154	
VR 152		Semi-fixed 33kΩ (B)		VRMB6VS333	
VR 451 452		Volume 20kΩ (U)		CCS1164	
VR 453		Volume/Switch 200Ω, 50kΩ (G), 20kΩ (B)		CCS1163	
VR 701		Semi-fixed 220Ω (B)		VRMB6VS221	
B 951		Battery		CEX1014	
		LCD		CAW1097	

RESISTORS

Mark	====	Circuit Symbol & No.	====	Part Name	Part No.
R 1 3 5 706 736				RS1/10S223J	
R 2				RD1/4PS151JL	
R 4 459 460				RS1/10S333J	
R 6 479 962				RD1/4PS473JL	
R 8				RS1/10S563J	
R 9				RD1/4PS563JL	
R 10 157 201 202 714 716 728				RS1/10S103J	
R 13				RD1/4PS271JL	
R 14				RS1/10S561J	
R 15				RS1/10S683J	
R 16				RS1/10S474J	
R 17				RD1/4PS271JL	
R 18 465 466				RS1/10S331J	
R 20				RS1/10S182J	
R 21				RS1/10S101J	
R 22				RS1/10S223J	
R 23				RD1/4PS472JL	
R 24				RD1/4PS682JL	
R 25 223 702				RS1/10S472J	
R 26 204 219 963				RD1/4PS103JL	
R 51				RS1/10S331J	
R 52				RD1/4PS333JL	
R 53 480				RD1/4PS104JL	
R 54				RD1/4PS103JL	
R 55 722				RS1/10S682J	
R 56 353 354 724				RD1/4PS153JL	
R 57 210 451 701 713 719 729				RS1/10S473J	
R 58				RS1/10S513J	
R 59				RS1/10S0R0J	
R 101				RS1/10S133J	
R 102				RS1/10S682J	
R 103				RS1/10S183J	
R 104				RS1/10S682J	
R 105				RS1/10S752J	
R 153				RD1/4PS562JL	
R 154				RS1/10S332J	
R 155 718				RS1/10S182J	
R 156				RS1/10S684J	
R 158				RS1/10S682J	
R 159				RS1/10S333J	
R 160				RS1/10S103J	
R 203				RD1/4PS513JL	
R 205				RS1/10S510J	
R 211				RS1/10S103J	
R 220				RD1/4PS752JL	
R 221				RS1/10S104J	
R 222				RD1/4PS220JL	
R 224				RS1/10S0R0J	
R 251 252				RS1/10S513J	
R 253 254 703 704 705 717 739				RS1/10S104J	
R 255 256				RS1/10S151J	
R 257 258				RS1/10S133J	
R 259 260				RS1/10S334J	
R 262				RS1/10S392J	
R 263 492				RS1/8S0R0J	
R 351 352 355 503 506				RD1/4PS102JL	
R 452				RS1/10S473J	
R 453 964				RD1/4PS331JL	
R 454				RS1/10S331J	
R 455				RD1/4PS182JL	
R 456 551 552				RS1/10S182J	
R 457 458 960				RD1/4PS222JL	
R 461 462				RS1/10S474J	
R 463 464				RS1/8S132J	
R 467 468				RD1/4PS103JL	
R 469 470				RS1/8S102J	
R 471 472				RS1/8S222J	
R 476				RS1/10S2R2J	
R 477				RS1/10S333J	
R 481 485				RD1/4PS102JL	
R 482				RD1/4PS392JL	
R 483 484				RS1/10S561J	
R 486 487 488 553 554 558 721				RS1/10S0R0J	
R 501				RD1/4PS472JL	
R 504 715 955 966				RD1/4PS472JL	
R 505 723				RD1/4PS152JL	
R 555 556				RS1/10S153J	
R 557				RD1/4PS010JL	
R 559				RS1/10S682J	
R 707				RS1/10S181J	
R 708 710 711 734				RS1/10S102J	
R 709 732				RD1/4PS223JL	
R 712				RS1/10S561J	
R 720				RS1/10S222J	
R 725 727				RS1/10S0R0J	
R 726				RS1/10S564J	
R 730				RS1/10S823J	
R 731				RS1/10S123J	
R 735				RS1/8S223J	
R 737				RS1/8S473J	
R 738				RS1/8S103J	
R 901				RD1/2PS3R3JL	
R 911				RS1/10S331J	
R 912				RS1/10S221J	
R 913 967				RS1/10S103J	
R 914 959				RS1/10S222J	
R 951				RD1/4PS471JL	
R 953				RS1/10S331J	
R 956				RD1/4PS473JL	
R 961				RD1/4PS333JL	

CAPACITORS

Mark	====	Circuit Symbol & No.	====	Part Name	Part No.
C	1	3 17 56 203		CCSQCH220J50	
C	2	53 58 205 226 710 902		CKSQYF473Z50	
C	4	25 469 470		CCSQCH330J50	
C	5	207 209		CCSQTH090D50	
C	6			CCSQTH070D50	
C	7	202 706 717		CKSQYB222K50	
C	8	22		CKSQYB223K50	
C	9			CCSQTH150J50	
C	10			CCSQSL271J50	
C	11			CKSQYB103K50	
C	12			CCSQCH470J50	
C	13	224		CEA3R3M50LS	
C	14			CKSQYB102K50	
C	15			CCSQCH080D50	
C	16			CCSQCH100D50	
C	18			CCSQCH120J50	
C	19	101 164 201 502		CKSQYB103K50	
C	20			CKSQYF104Z50	
C	21	23		CKSQYB393K50	
C	24			CCSQCH470J50	
C	27	52 912		CEA101M10LS	
C	51	54 59 105 154 204 216 227		CKSQYB223K50	
C	55	155 156 157		CEA010M50LS2	
C	57			CEAR47M50LS2	
C	60			CCDLH910J50	
C	61	954		CKSQYB473K50	
C	102	206 563 707 713 724		CEA470M16LS	
C	103			CKSQYB182K50	
C	104			CKSQYB682K50	
C	106			CKSQYB102K50	
C	151	152		CKSQYB183J50	
C	153			CKSQYB332K50	
C	158			CEAR22M50LS2	
C	159			CEA0R1M50LS2	
C	161	451 452 467 704 714		CEA100M16LS2	
C	162	163		CKSQYB152K50	
C	165			CKSQYB102K50	
C	208			CCSQCH010C50	
C	217			CCSQRH101J50	
C	218			CCSQUJ180J50	
C	222	455 456		CEAR47M50LS2	
C	225	232 711 722		CKSQYB473K25	
C	228	705		CEA220M16LS	
C	229	230 701 709		CKSQYB223K50	
C	231			CQPA431G2A	
C	251	252		CKSQYB102K50	
C	253	254 957		CEA2R2M50LS2	
C	255			CEA470M10LS	
C	256	262 557 558		CEA470M10L2	
C	257	258		CKSQYB103K50	
C	261	555 556		CEA221M10L2	
C	351	352		CEA100M16L2	
C	353			CEA47M35L2	
C	453	454		CEA0R1M50LS2	
C	457	458		CKSQYB153K50	
C	459	460		CKSQYB393K25	
C	461	462		CEALNP2R2M35	
C	463	464		CEAR22M50L2	
C	465	466		CKSQYB152K50	
C	468			CEA010M50LS2	

Mark ===== Circuit Symbol & No. ===== Part Name Part No.

C	503	4.7 μ F/16V	CCH1005
C	551	552	CKSQYB102K50
C	553	554	CEA010M50L2
C	559	560 565	CQEA224J63
C	561	562	CEA102M10L2
C	564		CEA471M16L2
C	702	703	CKSQYB391K50
C	708		CCSQSL271J50
C	712		CEA010M50LS2
C	715	716	CQMA102J50
C	718		CQMA683J50
C	719		CEAR33M50LS2
C	720	721	CQMA473J50
C	723		CEA471M16L2
C	901		CEA222M16L2
C	903		CEA331M16L2
C	911		CEA331M16L2
C	921		CCSQSL101J50
C	922		CKDYB391K50
C	923	924 925	CKPYF223Z25L
C	926	927	CKPYF223Z25L
C	951	952	CCSQCH100D50
C	955		CKSQYF473Z50
C	956		CEA331M6R3L2
C	958		CEA220M16LS

Tuner Amp Unit
MISCELLANEOUS

	KE-2700SDK/WG	KE-2730B/EW	KE-2700B/IT
Circuit Symbol & No.	Part No.	Part No.	Part No.
IC701	LA2220	.....	.....
IC702	TA75558S	.....	.....
Q203, 204, 205, 206, 207	.....	2SC2458	.....
Q504	.....	DTC143ES	.....
Q505	.....	DTC124ES	.....
Q701, 702, 705	2SC2458	.....	.....
Q703	2SK30A	.....	.....
Q704	2SA104B	.....	.....
Q706	2SC2634MC	.....	.....
Q707	2SC2712	.....	.....
Q708	DTC124ES	.....	.....
Q913	DTC143ES	DTC124ES	DTC124ES
D457	.....	1SS133	1SS133
D701, 702, 951, 966, 969	1SS133	.....	.....
D953	.....	.....	1SS133
L701	LAUR68M	.....	.....
T202	CTB1008	CTB1004	CTB1008
T207	.....	CTB1059	.....
T208, 209	.....	CTB1062	.....
T210	CTB1061	CTB1060	CTB1061
X702	CSS1022	.....	.....
VR701	VRMBEVS221	.....	.....

RESISTORS

	KE-2700SDK/WG	KE-2730B/EW	KE-2700B/IT
Circuit Symbol & No.	Part No.	Part No.	Part No.
R206, 207, 215	.....	RD1/4PS474JL	.....
R208, 209, 213, 218	.....	RD1/4PS561JL	.....
R212	.....	RD1/4PS104JL	.....
R214	.....	RS1/10S821J	.....
R216, 217	.....	RS1/10S474J	.....
R224	RS1/10S0R0J	.....	RS1/10S0R0J
R463, 464	RS1/BS132J	RS1/BS122J	RS1/BS122J
R476	RS1/10S2R2J	RS1/10S0R0J	RS1/10S0R0J
R481	RD1/4PS102JL	RD1/4PS222JL	RD1/4PS222JL
R485	RD1/4PS102JL	.....	.....

	KE-2700SDK/WG	KE-2730B/EW	KE-2700B/IT
Circuit Symbol & No.	Part No.	Part No.	Part No.
R501	RD1/4PS472JL	RD1/4PS222JL	RD1/4PS472JL
R502	.....	RD1/4PS222JL	.....
R507	.....	RD1/4PS331JL	.....
R701, 713, 719, 729	RS1/10S473J	.....	.....
R702	RS1/10S472J	.....	.....
R703, 704, 705, 717	RS1/10S104J	.....	.....
R706, 736	RS1/10S223J	.....	.....
R707	RS1/10S181J	.....	.....
R708, 710, 711, 734	RS1/10S102J	.....	.....
R709, 732	RD1/4PS223JL	.....	.....
R712	RS1/10S561J	.....	.....
R714, 716, 728	RS1/10S103J	.....	.....
R715, 955	RD1/4PS472JL	.....	.....
R718	RS1/10S182J	.....	.....
R720	RS1/10S222J	.....	.....
R721	RS1/10S0R0J	.....	.....
R722	RS1/10S682J	.....	.....
R723	RD1/4PS152JL	.....	.....
R724	RD1/4PS153JL	.....	.....
R725, 727	RS1/10S0R0J	.....	.....
R726	RS1/10S564J	.....	.....
R730	RS1/10S823J	.....	.....
R731	RS1/10S123J	.....	.....
R735	RS1/8S223J	.....	.....
R737	RS1/8S473J	.....	.....
R738	RS1/8S103J	.....	.....
R739	RS1/10S104J	.....	.....
R955	.....	RD1/4PS473JL	RD1/4PS473JL
R967	RS1/10S103J	RS1/10S0R0J	RS1/10S0R0J

CAPACITORS

	KE-2700SDK/WG	KE-2730B/EW	KE-2700B/IT
Circuit Symbol & No.	Part No.	Part No.	Part No.
C165	CKSQYB102K50	.....	.....
C210, 211, 220, 221	.....	CKSQYF473Z50	.....
C212	.....	CCSORH101J50	.....
C213	.....	CCSQCH180J50	.....
C214	.....	CQPA93102A	.....
C215	.....	CCSORH820J50	.....
C217	CCSORH101J50	CKSQYB223K50	CCSORH101J50
C219	.....	CCSQSH390J50	.....
C231	CQPA43102A	.....	CQPA43102A
C501	.....	CEAR47M50LS2	.....
C701, 709	CKSQYB223K50	.....	.....
C702, 703	CKSQYB391K50	.....	.....
C704, 714	CEA100M16LS2	.....	.....
C705	CEA220M16LS	.....	.....
C706, 717	CKSQYB222K50	.....	.....
C707, 713, 724	CEA470M16LS	.....	.....
C708	CCSQSL271J50	.....	.....
C710	CKSQYF473Z50	.....	.....
C711, 722	CKSQYB473K25	.....	.....
C712	CEA10M50LS2	.....	.....
C715, 716	CQMA102J50	.....	.....
C718	CQMA603J50	.....	.....
C719	CEAR33M50LS2	.....	.....
C720, 721	CQMA473J50	.....	.....
C723	CEA471M16L2	.....	.....
C903	CEA331M16L2	CEA102M16L2	CEA102M16L2
C921	CCSQSL101J50	.....	CCSQSL101J50
C922	CKDYB391K50	.....	CKDYB391K50
C923, 924, 925	CKPYF223Z25L	.....	CKPYF223Z25L
C926, 927	CKPYF223Z25L	.....	CKPYF223Z25L
C953	.....	CKSQYF473Z50	CKSQYF473Z50
C957	CEA2R2M50LS2	.....	.....
C958	CEA220M16LS	.....	.....

Unit Number :
Unit Name : Tuner Amp Unit (KE-1700SDK/WG)

MISCELLANEOUS

Mark	====	Circuit Symbol & No.	====	Part Name	Part No.
IC	1				PAC001A
IC	251				LA3161P
IC	551				TA7281P
IC	701				LA2220
IC	702				TA75558S
IC	951				PD4275
Q	1			Chip Transistor	3SK195
Q	2				2SC2999
Q	3	704			2SA1048
Q	151			Chip Transistor	2SC2712
Q	152			Chip Transistor	DTA124EK
Q	153	501		Chip Transistor	DTC114EK
Q	201				2SK435
Q	202	503 522 701 702 705			2SC2458
Q	251				2SD1992A
Q	455	456			DTC343TS
Q	457	708			DTC124ES
Q	502				2SK330
Q	703				2SK30A
Q	706				2SC2634NC
Q	707				2SC2712
Q	911				2SD1684
Q	912				2SA1150
Q	913				DTC143ES
Q	951				DTC114ES
Q	952				DTA124ES
D	1			Chip Diode	1SV128A-BB
D	2	3 4		Variable Capacitance Diode	SVC203-AB
D	5			Chip Diode	MA157-MR
D	151				HZS4R3EB3
D	201	202 203 204 251			1SS133
D	205			Variable Capacitance Diode	KV1235Z3
D	252	911			RD9R1JSB2
D	451	452 453 454 456 458 459 701 702			1SS133
D	501				RD3R0ESB2
D	901	902			ERA15-02Y1
D	951	958 959 960 962 963 966 969			1SS133
D	961				RD5R6JSB2
D	964				MA700
D	965				RD5R1JSB2
D	967				RD8R2JSB1
L	1			Inductor 0.12 μ H	CTF1065
L	2			Coil	CTC1022
L	3			Coil	CTC1020
L	4			Coil	CTC1056
L	5			OSC Coil	CTC1024
L	6			Inductor 15 μ H	LAU150K
L	201			Ferri-Inductor 4.7 μ H	LAU4R7K
L	202			Ferri-Inductor 33 μ H	LAU330K
L	203			Ferri-Inductor 4.7 μ H	CTF-161
L	701			Micro-Inductor 0.68 μ H	LAUR68M
L	901			Choke Coil	CTH1084
L	951			Ferri-Inductor 100 μ H	LAU101K
T	1			Coil	CTC1064
T	51			Coil	CTC1060

Mark	====	Circuit Symbol & No.	====	Part Name	Part No.	Mark	====	Circuit Symbol & No.	====	Part Name	Part No.
T	201			Coil	CTB1056	R	154				RS1/10S332J
T	202			Coil	CTB1008	R	155	718			RS1/10S182J
T	203	204		Coil	CTB1058	R	156				RS1/10S684J
T	205			Coil	CTE1041	R	158				RS1/10S682J
T	206			Coil	CTE1042	R	159				RS1/10S333J
T	210			Coil	CTB1061	R	160				RS1/10S103J
CF	1			Ceramic Filter	CTF-182	R	203				RD1/4PS513JL
CF	51	52		Ceramic Filter	CTF1130	R	205				RS1/10S510J
CF	201			Filter	CTF1085	R	211				RS1/10S103J
H	1			Surge Protector	DSP-201M	R	220				RD1/4PS752JL
X	151			Ceramic Resonator	CSS1066	R	221				RS1/10S104J
X	702			Ceramic Resonator	CSS1022	R	222				RD1/4PS220JL
X	951			Crystal Resonator	CSS1011	R	224	456 461 462 473 474 478			RS1/10S0R0J
VR	151			Semi-fixed 150k Ω (B)	VRMB6VS154	R	251	252			RS1/10S513J
VR	152			Semi-fixed 33k Ω (B)	VRMB6VS333	R	253	254 703 704 705 717 739			RS1/10S104J
VR	451			Volume 20k Ω (A)	CCS1166	R	255	256			RS1/10S151J
VR	452			Volume 50k Ω (G)	CCS1165	R	257	258			RS1/10S133J
VR	453			Volume/Switch 20k Ω (B)	CCS1170	R	259	260			RS1/10S334J
VR	701			Semi-fixed 220 Ω (B)	VRMB6VS221	R	262				RS1/10S392J
B	951			Battery	CEX1014	R	263	490 492			RS1/8S0R0J
				LCD	CAW1097	R	351	352			RD1/4PS332JL
						R	355	503 506			RD1/4PS102JL
						R	453				RD1/4PS272JL
						R	454				RS1/10S272J
						R	467	468			RD1/4PS562JL
						R	469	470			RS1/8S222J
						R	471				RS1/8S222J
						R	472				RS1/8S222J
						R	476				RS1/10S2R7J
						R	477				RS1/10S333J
						R	481	485			RD1/4PS102JL
						R	482				RD1/4PS392JL
						R	486	489 499 553 554 558 721			RS1/10S0R0J
						R	501	504 715 955 966			RD1/4PS472JL
						R	505	723			RD1/4PS152JL
						R	551	552			RS1/10S182J
						R	555	556			RS1/10S153J
						R	557				RD1/4PS010JL
						R	559				RS1/10S682J
						R	707				RS1/10S181J
						R	708	710 711 734			RS1/10S102J
						R	709	732			RD1/4PS223JL
						R	712				RS1/10S561J
						R	720				RS1/10S222J
						R	725	727			RS1/10S0R0J
						R	726				RS1/10S564J
						R	730				RS1/10S823J
						R	731				RS1/10S123J
						R	735				RS1/8S223J
						R	737				RS1/8S473J
						R	738				RS1/8S103J
						R	901				RD1/2PS3R3JL
						R	911				RS1/10S331J
						R	912				RS1/10S221J
						R	913	967			RS1/10S103J
						R	914	959			RS1/10S222J
						R	951				RD1/4PS471JL
						R	953				RS1/10S331J
						R	956				RD1/4PS473JL
						R	960				RD1/4PS222JL
						R	961				RD1/4PS333JL
						R	964				RD1/4PS331JL

CAPACITORS

Mark	====	Circuit Symbol & No.	====	Part Name	Part No.
C	1	3 17 56 203		CCSQCH220J50	
C	2	53 58 205 226 710 902		CKSQYF473Z50	
C	4	25		CCSQCH330J50	
C	5	207 209		CCSQTH090D50	
C	6			CCSQTH070D50	
C	7	202 706 717		CKSQYB222K50	
C	8	22		CKSQYB223K50	
C	9			CCSQTH150J50	
C	10			CCSQSL271J50	
C	11			CKSQYB103K50	
C	12			CCSQCH470J50	
C	13	224		CEA3R3M50LS	
C	14			CKSQYB102K50	
C	15			CCSQCH080D50	
C	16			CCSQCH100D50	
C	18			CCSQCH120J50	
C	19	101 164 201 502		CKSQYB103K50	
C	20			CKSQYF104Z50	
C	21	23		CKSQYB393K50	
C	24			CCSQCH470J50	
C	27	52 912		CEA101M10LS	
C	51	54 59 105 154 204 216 227		CKSQYB223K50	
C	55	155 156 157		CEA010M50LS2	
C	57			CEAR47M50LS2	
C	60			CCDLH910J50	
C	61	954		CKSQYB473K50	
C	102	206 563 707 713 724		CEA470M16LS	
C	103			CKSQYB182K50	
C	104			CKSQYB682K50	
C	106			CKSQYB102K50	
C	151	152		CKSQYB183J50	
C	153			CKSQYB332K50	
C	158			CEAR22M50LS2	
C	159			CEA0R1M50LS2	
C	161	467		CEA100M16LS2	
C	162	163		CKSQYB152K50	
C	165			CKSQYB102K50	
C	208			CCSQCH010C50	
C	217			CCSQRH101J50	
C	218			CCSQUJ180J50	
C	222			CEAR47M50LS2	
C	225	232		CKSQYB473K25	
C	228	705		CEA220M16LS	
C	229	230 701 709		CKSQYB223K50	
C	231			COPA431G2A	
C	251	252		CKSQYB102K50	
C	253	254 957		CEA2R2M50LS2	
C	255			CEA470M10LS	
C	256	262 557 558		CEA470M10L2	
C	257	258		CKSQYB103K50	
C	261	555 556		CEA221M10L2	
C	351	352 704 714		CEA100M16L2	
C	353			CEA4R7M35L2	
C	461	462		CEA2R2M50LS2	
C	463	464		CEAR22M50L2	
C	465	466		CKSQYB152K50	
C	468			CEA010M50LS2	
C	471	472		CKSQYB473K50	
C	503			CCH1005	
C	551	552		CKSQYB102K50	

4.7 μ F/16V

Mark ===== Circuit Symbol & No. ===== Part Name Part No.

C	553	554		CEA010M50L2
C	559	560 565		CQEA224J63
C	561	562		CEA102M10L2
C	564			CEA471M16L2
C	702	703		CKSQYB391K50
C	708			CCSQSL271J50
C	711	722		CKSQYF473Z25
C	712			CEA010M50LS2
C	715	716		CQMA102J50
C	718			CQMA683J50
C	719			CEAR33M50LS2
C	720	721		CQMA473J50
C	723			CEA471M16L2
C	901			CEA222M16L2
C	903			CEA331M16L2
C	911			CEA331M16L2
C	921			CCSQSL101J50
C	922			CKDYB391K50
C	923	924 925		CKPYF223Z25L
C	951	952		CCSQCH100D50
C	955			CKSQYF473Z50
C	956			CEA331M6R3L2
C	958			CEA220M16LS

Tuner Amp Unit
MISCELLANEOUS

	KE-1700SDK/WG	KE-1730B/EW	KE-1700B/IT
Circuit Symbol & No.	Part No.	Part No.	Part No.
IC701	LA2220	.....	.....
IC702	TA75558S	.....	.....
Q203, 204, 205, 206, 207	.....	2SC2458	.....
Q504	.....	DTC143ES	.....
Q505	.....	DTC124ES	.....
Q701, 702, 705	2SC2458	.....	.....
Q703	2SK30A	.....	.....
Q704	2SA1048	.....	.....
Q706	2SC2634MC	.....	.....
Q707	2SC2712	.....	.....
Q708	DTC124ES	.....	.....
Q913	DTC143ES	DTC124ES	DTC124ES
Q457	.....	1SS133	1SS133
D701, 702	1SS133	.....	.....
D951, 966, 969	1SS133	.....	.....
D953	.....	.....	1SS133
L701	LAUR68M	.....	.....
T202	CTB1008	CTB1004	CTB1008
T207	.....	CTB1059	.....
T208, 209	.....	CTB1062	.....
T210	CTB1061	CTB1060	CTB1061
X702	CSS1022	.....	.....
VR701	VRMB6VS221	.....	.....

RESISTORS

Circuit Symbol & No.	KE-1700SDK/WG	KE-1730B/EW	KE-1700B/IT
	Part No.	Part No.	Part No.
R206, 207, 215	.....	RD1/4PS474JL	.....
R208, 209, 213, 218	.....	RD1/4PS561JL	.....
R212	.....	RD1/4PS104JL	.....
R214	.....	RS1/10S821J	.....
R216, 217	.....	RS1/10S474J	.....
R224	RS1/10S0R0J	.....	RS1/10S0R0J
R476	RS1/10S2R7J	RS1/10S0R0J	RS1/10S0R0J
R481	RD1/4PS102JL	RD1/4PS222JL	RD1/4PS222JL
R485	RD1/4PS102JL	.....	.....
R501	RD1/4PS472JL	RD1/4PS222JL	RD1/4PS472JL
R502	.....	RD1/4PS222JL	.....
R507	.....	RD1/4PS331JL	.....
R701, 713, 719, 729	RS1/10S473J	.....	.....
R702	RS1/10S472J	.....	.....
R703, 704, 705, 717, 739	RS1/10S104J	.....	.....
R706, 736	RS1/10S223J	.....	.....
R735	RS1/8S223J	.....	.....
R707	RS1/10S181J	.....	.....
R708, 710, 711, 734	RS1/10S102J	.....	.....
R709, 732	RD1/4PS223JL	.....	.....
R712	RS1/10S561J	.....	.....
R714, 716, 728	RS1/10S103J	.....	.....
R715	RD1/4PS472JL	.....	.....
R718	RS1/10S182J	.....	.....
R720	RS1/10S222J	.....	.....
R721	RS1/10S0R0J	.....	.....
R722	RS1/10S682J	.....	.....
R723	RD1/4PS152JL	.....	.....
R724	RD1/4PS153JL	.....	.....
R725, 727	RS1/10S0R0J	.....	.....
R726	RS1/10S564J	.....	.....
R730	RS1/10S823J	.....	.....
R731	RS1/10S123J	.....	.....
R737	RS1/8S473J	.....	.....
R738	RS1/8S103J	.....	.....
R955	RD1/4PS472JL	RD1/4PS473JL	RD1/4PS473JL
R967	RS1/10S103J	RS1/10S0R0J	RS1/10S0R0J

CAPACITORS

Circuit Symbol & No.	KE-1700SDK/WG	KE-1730B/EW	KE-1700B/IT
	Part No.	Part No.	Part No.
C165	CKSOYB102K50	.....	.....
C210, 211, 220, 221	.....	CKSOYF473Z50	.....
C212	.....	CCSORH101J50	.....
C213	.....	CCSOCH180J50	.....
C214	.....	COPA331G2A	.....
C215	.....	CCSORH820J50	.....
C217	CCSORH101J50	CKSOYB223K50	CCSORH101J50
C219	.....	CCSOCH390J50	.....
C231	COPA431G2A	.....	COPA431G2A
C501	.....	CEAR47M50LS2	.....
C701, 709	CKSOYB223K50	.....	.....
C702, 703	CKSOYB391K50	.....	.....
C704, 714	CEA100M16L2	.....	.....
C705	CEA220M16LS	.....	.....
C706, 717	CKSOYB222K50	.....	.....
C707, 713, 724	CEA470M16LS	.....	.....
C708	CCSQSL271J50	.....	.....
C710	CKSOYF473Z50	.....	.....
C711, 722	CKSOYF473Z25	.....	.....
C712	CEA010M50LS2	.....	.....
C715, 716	CQMA102J50	.....	.....
C718	CQMA683J50	.....	.....
C719	CEAR33M50LS2	.....	.....
C720, 727	CQMA473J50	.....	.....
C723	CEA471M16L2	.....	.....
C903	CEA331M16L2	CEA102M16L2	CEA102M16L2
C921	CCSQSL101J50	.....	CCSQSL101J50
C922	CKDYB391K50	.....	CKDYB391K50
C923, 924, 925	CKPYF223Z25L	.....	CKPYF223Z25L
C953	.....	CKSOYF473Z50	CKSOYF473Z50
C957	CEA2R2M50LS2	.....	.....
C958	CEA220M16LS	.....	.....

